Service Manual



Colour Television **TX-28LK10F** TX-28SK10F TX-25LK10F **EURO-4H Chassis**

SPECIFICATIONS

(Information in brackets [] refers to model TX-28SK10F (Information in brackets { } refers to model TX-25LK10F 220-240V a.c., 50Hz Power Source: Power Consumption: 121W {103W}

Standby Power

Consumption:

Aerial Impedance: Receiving System:

 75Ω unbalanced, Coaxial Type PAL-I, B/G, H, D/K, PAL-525/60 SECAM B/G, D/K, L/L

M.NTSC (AV only) NTSC (AV only)

Receiving Channels:

VHF E2-E12 VHF A-H (ITALY) VHF R3-R5 UHF E21-E69 CATV S1-S10 (M1-M10)

VHF H1-H2 (ITALY) VHF R1-R2 VHF R6-R12 CATV (S01-S05) CATV \$11-S20 (U1-U10)

CATV S21-S41 (HYPERBAND) Intermediate Frequency:

Sound

AV2 IN

AV2 OUT

38,9MHz, 33,9MHz 33,4MHz (B/G), 33,16MHz (A2)

33,05MHz (NICAM B/G,D/K,L) 32,4MHz (D/K),32,66MHz(CZ STEREO)

32,9MHz (I) 40,4MHz (L'), 39,75MHz (L'NICAM)

Colour 34,47MHz (PAL)

34,5MHz, 34,65MHz (SECAM) 38,3MHz, 38,15MHz (SECAM L')

Video/Audio Terminals:

AUDIO MONITOR OUT AV1 IN **AV1 OUT**

Audio (RCAx2) 500mV rms1k Ω Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms $10\text{k}\Omega$ RGB (21 pin) 0,7V p-p 75Ω Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms $1\text{k}\Omega$ Video (21 pin) 1V p-p 75Ω Audio (21 pin) $500 \text{mV} \text{ rms } 10 \text{k}\Omega$ S-Video IN Y: 1V p-p 75Ω (21 pin) C: 0.3V p-p 75Ω Video (21 pin) 1V p-p 750 Audio (21 pin) 500mV rms 1kΩ

AV3 IN (only TX-28 LK10F and TX-25LK10F)

Audio (RCAx2) Video (RCAx1)

500mV rms10kΩ 1V p-p 75Ω {26kV ±1kV} 28kV ±1kV

High Voltage: Picture Tube: Audio Output:

A66ECF50X82 66cm {A59EAK071X54 59cm} 2x7W RMS, 2x15W MPO 8Ω Impedance

Headphones Accessories supplied:

 8Ω Impedance Remote Control 2 x R6 (UM3) Batteries

Dimensions:

Height: 575mm {525mm} Width: 775mm {717mm} 460mm Depth {466mm} {26kg}

32,5kg Specifications are subject to change without notice. Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4H technical guide.

TECHNISCHE DATEN

(Die Auskunft in den Klammern [] bezeicht sich auf das folgende Modell TX-28SK10F) (Die Auskunft in den Klammern {} bezeicht sich auf das folgende Modell TX-25LK10F)

Netzspannung: 220-240V a.c., 50Hz

Leistungsaufnahme:

121W {103W}

Standby

Leistungsaufnahme:

Antennenimpedanz: Empfangssystem:

75Ω asymmetrisch, Koaxial-Typ PAL-I, B/G, H, D/K, PAL-525/60 SECAM B/G, D/K, L/L' M.NTSC (nur AV Eingang) NTSC (nur AV Eingang)

Empfangsbereiche:

VHF E2-E12 VHF H1-H2 (ITALY) VHF A-H (ITALY) VHF R1-R2 VHF R3-R5 VHF R6-R12 UHF E21-E69 CATV (S01-S05)

CATV S1-S10 (M1-M10) CATV \$11-S20 (U1-U10) CATV S21-S41 (HYPERBAND)

Zwischenfrequenz:

Video

38.9MHz. 33.9MHz 33,4MHz (B/G), 33,16MHz (A2) Sound

33,05MHz (NICAM B/G,D/K,L) 32,4MHz (D/K),32,66MHz(CZ STEREO)

1V p-p 75Ω

32,9MHz (I)

40,4MHz (L'), 39,75MHz (L'NICAM) Colour 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)

38,3MHz, 38,15MHz (SECAM L'))

Video/Audio Anschlüsse: **AUDIO MONITOR OUT** Audio (RCAx2) $500mV rms1k\Omega$ AV1 FINGANG Video (21 pin)

Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) 0,7V p-p 75Ω Video (21 pin) Audio (21 pin) 1V p-p 75Ω 500mV rms 1kO Video (21 pin) 1V p-p 75Ω Audio (21 pin) $500 mV rms 10 k\Omega$

S-Video IN Y: 1V p-p 75Ω (21 pin) C: 0,3V p-p 75Ω Video (21 pin) 1V p-p 75Ω

Audio (21 pin) 500mV rms $1k\Omega$ AV3 EINGANG (nur TX-28 LK10F und TX-25LK10F)

Audio (RCAx2) $500 \text{mV} \text{ rms} 10 \text{k}\Omega$ 1V p-p 75Ω {26kV ±1kV} Video (RCAx1) 28kV/ +1kV/

Bildrohre: Ton Ausgangsleistung: A66ECF50X82 66cm {A59EAK071X54 59cm} 2x7W RMS,2x15W MPO 8Ω Impedanz

Lautsprecher Kopfhörer: Mitgel. Zubehör:

8Ω Impedanz Fernbedienung 2 x R6 (UM3) Batterien

Abmessungen:

AV1 AUSGANG

AV2 FINGANG

AV2 AUSGANG

Hochspannung:

Höhe: 575mm {525mm} Breite: 775mm {717mm} Tiefe: 460mm {466mm} Gewicht: 32,5kg {26kg}

Änderungen der Technisichen Daten vorbehalten. Gewichte und Abmessungen sind Näherungsangaben.

Hinweis: Bitte verwenden Sie das Service Manual zusammen mit dem Technical Guide.



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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

- It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
- When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
- 4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
- 5. Potentials as high as 29kV {27kV} are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

- Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
- 2. Turn on the receiver's power switch.
- 3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

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SICHERHEITSVORKEHRUNGEN ALLGEMEINE RICHTLINIEN

- Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
- Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
- Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations -R-C- Glieder wieder richtig eingesetzt sind.
- 4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
- 5. Im Betrieb sind Spannungen bis zu 29kV {27kV} in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher Stromversorgung mit sich. Servicearbeiten solten daher auch nie durch Personen versucht werden, die nicht in vollem. Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildrohre immer an dem Empfängerchassis zu entladen.
- Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

- Den Netsztecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.
- 2. Den Geräteschalter des Fernsehgerätes einschalten.
- Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzkabelsteckerund jendem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw.messen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, Muß die Anzeige unendlich betrgen.

LEAKAGE CURRENT HOT CHECK

- Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
- Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
- 3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
- Check each exposed metallic part and check the voltage at each point.
- Reverse the a.c. plug at the outlet and repeat each of the above measurements.
- The potential at any point should not exceed 1,4 V
 rms. In case a measurement is outside the limits
 specified, there is a possibility of a shock hazard, and
 the receiver should be repaired and rechecked before
 it is returned to the customer.

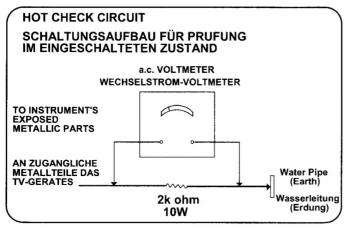


Fig. 1 Abb. 1

X-RADIATION WARNING

- 1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that the jig is capable of handling 29kV {27kV} without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

- 1. Set the brightness to minimum.
- Measure the high voltage. The meter should indicate: 28kV ± 1kV {26kV ±1kV}. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- To prevent any X-Radiation possibility, it is essential to use the specified tube.

MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

- Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
- Einen 2kΩ / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten, Erdung z.B Wasserleitung, anschließen.
- 3. Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
- 4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt dies Spannung messen.
- 5. Den Netztecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
- Die Spannung darf an keinem der Punkte 1,4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefar eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

RÖNTGENSTRAHLUNG ACHTUNG:

- Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
- Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 29kV {27kV} geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

ANMERKUNG: Es ist wichtig, daß ein präzises, regelmäßig geprüftes Voltmeter verwendet wird.

- Helligkeit auf Minimum stellen.
- Die Hochspannung messen. Die Anzeige des Instrumentes sollte: 28kV ± 1kV {26kV ±1kV}.
 Falls die Anziege diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
- Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 8 screws as shown in Fig. 2.

SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 8 Schrauben entfernen, siehe Abb. 2.

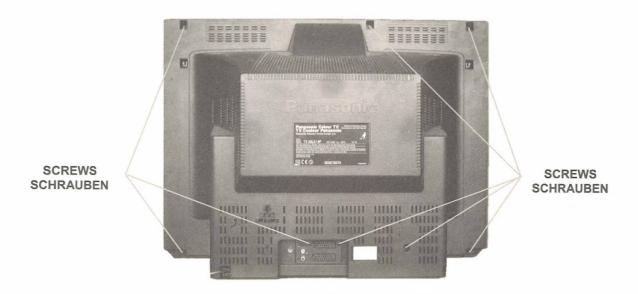


Fig. 2 Abb. 2

LOCATION OF CONTROLS

LAGE DER EINSTELLREGLER

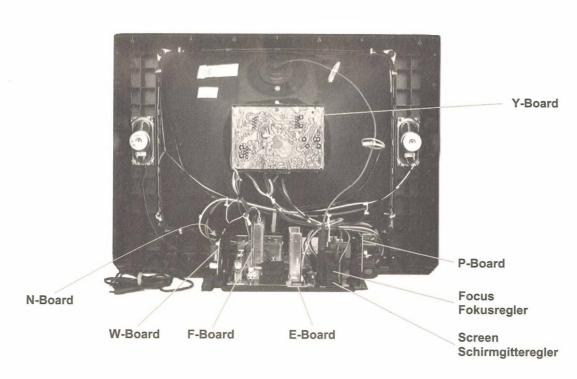


Fig. 3 Abb. 3

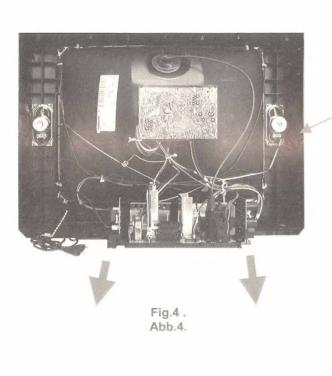
HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

- 1. Remove the bead clamper from the mains lead.
- 2. Hold and lift the rear of the chassis and gently pull the chassis towards you, as shown in Fig.4.
- Release the respective wiring clips and rotate the chassis horizontally through 90° anti-clockwise and elevate the front of the chassis.
- Using the rib (A), as shown Fig .5., locate the chassis to position Fig .6.
- After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

SERVICE POSITION FÜR DAS CHASSIS

(A)

- 1. Beseitigen sie das Festklemmen der Hauptleiter.
- Ergreifen sie den Hinterteil von Chassis und ziehen sie leicht das Chassis in der Richtung zu Ihnen Abb. 4.
- Lösen sie die Klemmen von einschlägigen Leitern (Dräten) und drehen sie das Chassis horizontal um 90° gegen Uhrzeigersinn, dann heben sie den Vorderteil von Chassis nach oben.
- 4. Mit der Hilfe der Rippe (A), Abb.5., plazieren sie das Chassis in die Lage auf dem Abb.6..
- Vor Rückgabe von TV an den Kunden versichen sie, dass alle Leiter in ihre ursprünglichen Positionen zurückgebracht werden.



(A)

Fig.5 . Abb.5.

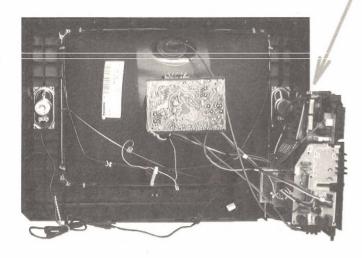


Fig. 6. Abb.6.

SELF CHECK

- Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.
- To get into the Self-Check mode press the down (-/v) button on the customer controls at the front of the set, at the same time pressing the STATUS button on the remote control, and the screen will show:

SELBSTDIAGNOSE

- Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose zunächst die Taste "STATUS" auf der Fernbedienung und gleichzeitig die-Taste am Bedienteil des FS-Gerätes drücken (-/v), auf dem Bildschirm erscheint hierauf :-
- Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt:

	VPC CIP SRC DDP TUN E2 MSP DPL	O.K. O.K. O.K. O.K. O.K. O.K.		PCB CAB	O.K. O.K.	
	OPTION1 OPTION2	39 1C	[39] [1C]	{39} {1C}		
	OPTION3	0F	[0F]	{0F}		
	OPTION4	00	[00]	{00}		
(OPTION5	ED	[CD]	{ED}		
	OPTION6	A 5	[A5]	{A1}		
\					/	

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.". Wenn der Hauptprozesser (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position " - - " anstelle von OK an.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

- LUCI interface kit (Linked Utility Computer Interface)
 Part number: TZS6EZ002
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- VICI (Visual Interactive Computer Information)
 These C.D.'s contain multimedia documentation providing quick access to service information.
 Part No.

TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001

- 1. Service Manuals
- 2. Instruction Books
- 3. Technical Information
- TASMIN (Technically Advanced System for Multimedia Interactive Notes)

As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

Service-Hilfen

Zur Unterstützung der Servicearbeiten stehen weitere Hilfsmittel zur Verfügung.

- LUCI interface kit (PC-unterstützes Diagnosesystem)
 Bestell-Nr.: TZS6EZ002
 Es beinhaltet ein Interface, die Anschlusskabel zum FS-Gerät und die Diagnose-Software. Bei Einführung von neuen Modellen ist ein Update der Software jederzeit möglich.
- VICI (Interaktive CD-ROM) mit schnellem Zugiff auf Serviceinformationen.
 Bestell-Nr.:

Bestell-Nr.:

TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001

- 1. Service Manuals
- 2. Bedienungsanleitungen
- 3. Technical Information
- TASMIN (Technisch erweitertes System für interaktive Multimedia-Hinweise und Notizen)
 Genauso wie dieses Produkt einen ersten Schritt in Richtung erweitertes interaktives Training bereitstellt, ermöglicht es einen noch schnelleren Zugang zu technischen Informationen.

ADJUSTMENT PROCEDURE

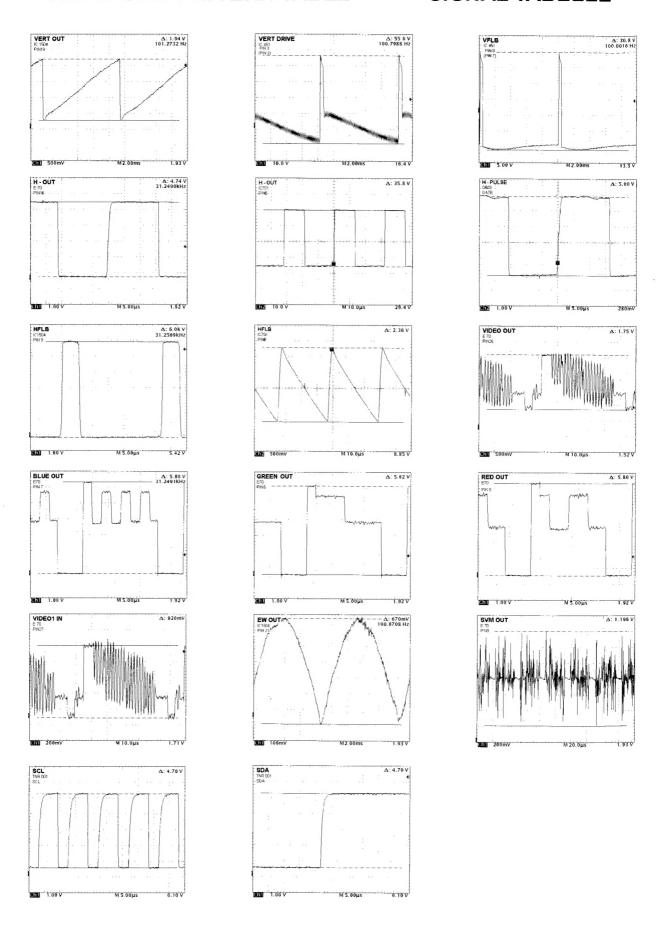
	Item/Preparation					Adjustme	nts			
	+B SET-UP	1.	Confirm	n the	folk	owing voltag	es.			
1.	Receive a Greyscale signal.		B2	148	±	2V	B10	5,25	±	0,25V
2.	Set the controls:-		B9	5	±	0,25V	B11	33	±	1,5V
	Brightness: Minimum		B5	12	±	0,5V	B7	8	±	0,5V
	•		B4	16	±	1V	B8	6	±	1V
	Contrast: Minimum		B12	26	±	2V	B13	13,5	±	1V
				{28	±	2V}		{16,5	±	1V}
	Volume: Minimum		B 3	36	±	1,5V	B14	-14	±	1V
			B1	205	±	10V		{-10	±	1V}
	Cut-Off / Ug2 Test	То	adjust C	Cutoff	con	nect an osci	lloscop	e to the	е В	lue
1.	Receive a Greyscale signal.	cat	hode.Pr	ess "S	STR	t" and adjust	"cutoff	" value	us	ing the
2.	Degauss the tube externally.	"Ye	ellow" ar	nd "Bl	ue"	buttons unt	il the bl	ack lev	/el i	s
3.	Set the TV into Service Mode 1.	160V ± 5V, press "STR" to store the value.								
4.	Select Cutoff mode.	Rer	move th	e osci	llos	cope.				
		Sel	ect Ug2	adjus	tme	ent and adju	st the s	creen '	۷R	until the
		dis	play sho	ws "C).K.	11				

ABGLEICH

		Vorbereitungen					Abgle	ich				
		+B - Abgleich	Folgende Spannungen sind zu überprüfen.									
1.	Testbild empfar	ngen.		B2	148	±	2V	B10	5,25	±	0,25V	
	Helligkeit auf:	Minimum		B9	5	±	0,25V	B11	33	±	1,5V	
	3			B5	12	±	0,5V	B7	8	±	0,5V	
	Kontrast auf:	Minimum		B4	16	±	1V	B8	6	±	1V	
				B12	26	±	2V	B13	13,5	±	1V	
	Lautstärke:	Minimum	1		{28	±	2V}		{16,	5±	1V}	
				B3	36	±	1,5V	B14	-14	±	1V	
				B1	205	±	10V		{-10	±	1V}	
		Cut-Off / Ug2 Test	Eine	n Oszi	llogra	ohe	n an die bl	aue Kato	de de	r Bi	ldröhre	
1.	Testbild empfa	ngen.	anso	chliesse	en. S1	R-	Faste drücl	ken und f	Mit de	r ge	lben	
2.	Bildröhre entma	•	und	blauer	n Tast	e de	en CUT-OF	F Wert a	auf 16	0V :	± 5V	
3.	Service-Mode 1	1 anwählen.	abg	leichen	und r	nit c	der STR- Ta	aste absp	eiche	rn. l	Den	
4.	Im Service-Mod	de den Abgleichpunkt Cutoff DC-Mode	Osz	illograp	h enti	ern	en und dei	n Ug2 Te	st auf	rufe	n. Den	
	wählen.		Abg	leichwe	ert sola	ang	e ändern, l	bis OK a	uf dem	n Bil	dschirm	
			erso	heint. [Den W	ert/	abspeiche	rn.				

WAVEFORM PATTERN TABLE

SIGNAL TABELLE



ALIGNMENT SETTINGS:

(The figures below are nominal and used for representative purposes only.)

- 1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-/v) on the customer controls at the front of the TV and at the same time press the INDEX button on the remote control, this will place the TV into the Service Mode.
- 2. Press the **RED / GREEN** buttons to step up / down through the functions.
- 3. Press the YELLOW / BLUE buttons to alter the function values.
- 4. Press the STR button after each adjustment has been made to store the required values.
- 5. To exit the Service Mode, press the "N" button.

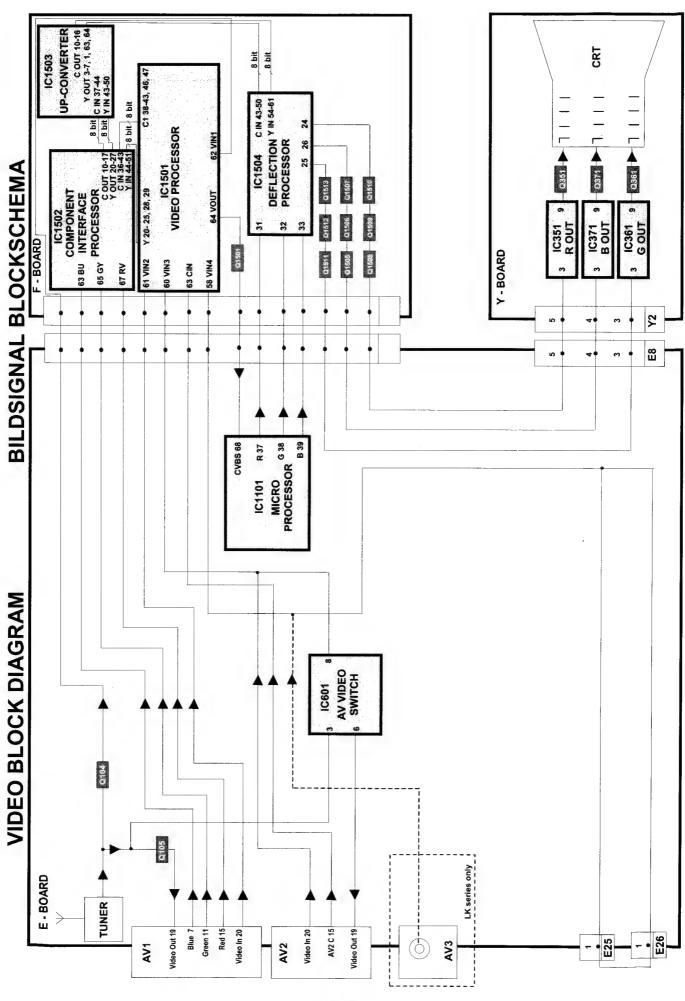
Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V- Amp 054	Optimum setting.
EW-amplitude	EW-Amp1 - 030	Optimum setting.
Lower corner	Lower corner 007	Optimum setting.
Trapezium-comp	Trapez 1 047	Optimum setting.
Upper corner	Upper corner 006	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
Angle	Angle 000	Optimum setting.
Bow	Bow 005	Optimum setting.
DVCO	DVCO - 005	Receive a PAL Colour Bar Pattern. For DVCO alignment press "Blue" button, wait until the colours are changing slowly and press "STR".
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the "Yellow" and "Blue" buttons until
Ug2 Test	Ug2 0155 O.K.	the black level is 160V ± 5V press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K." Black Level 160V ± 5V GND
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 000	Optimum setting.

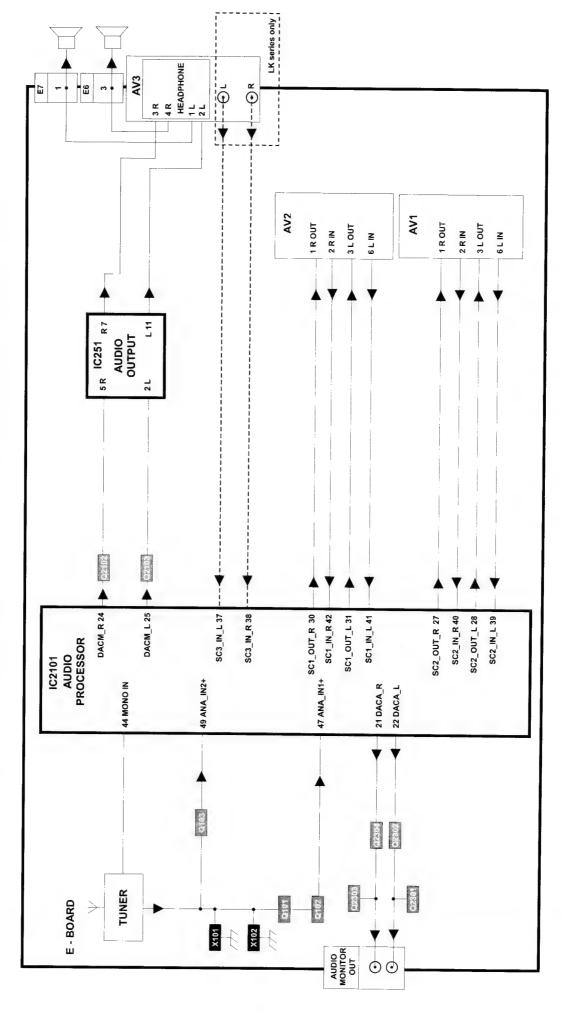
ABGLEICHTABELLE

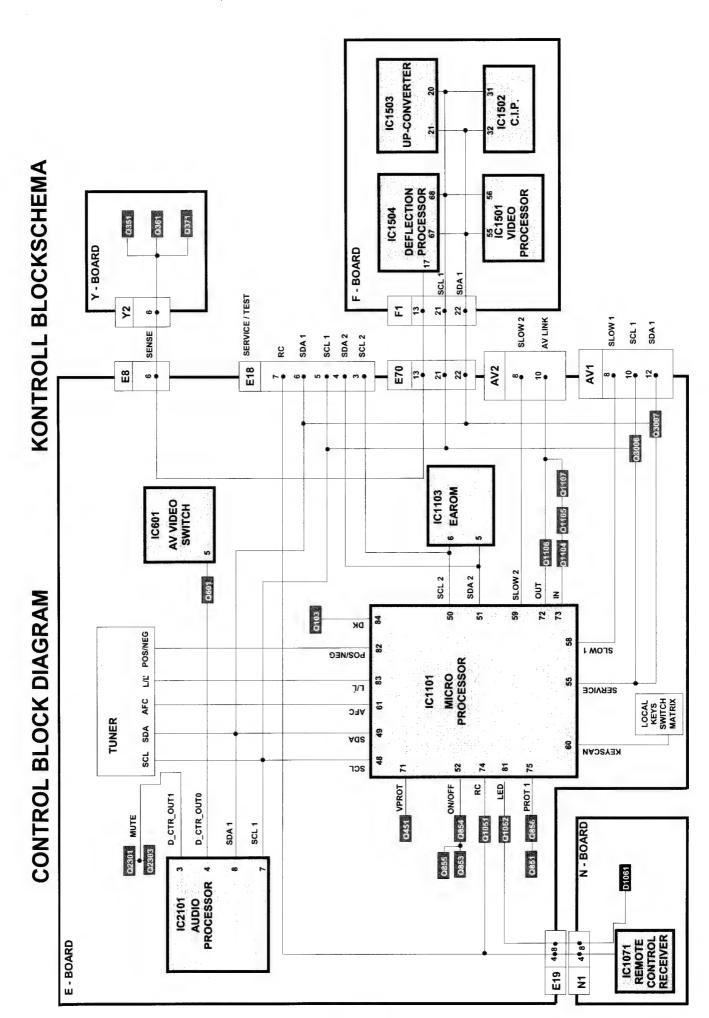
(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen.)

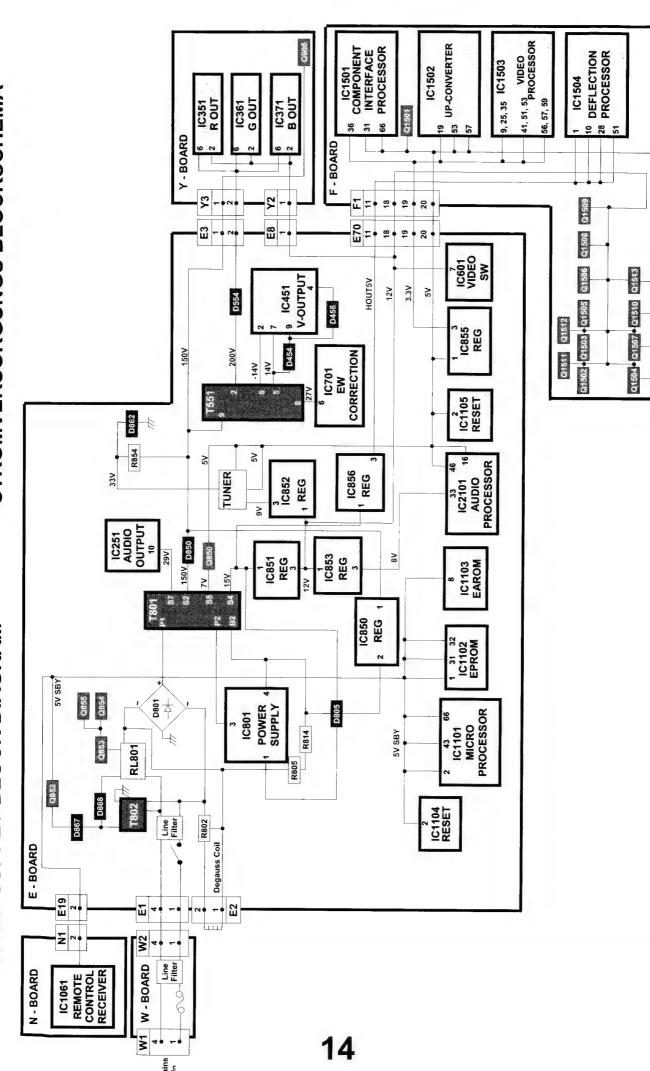
- 1. Um in den Service-Mode zu gelangen, gehen sie bitte wie folgt vor.
- 2. Stellen sie im Toneinstellungs-Menü die Bässe auf Maximun, die Höhen auf Minimum und die Lautstärke auf Minimum.
- 3. Halten sie die **INDEX-**Taste auf der Fernbedienung gedrückt und drücken zusätzlich die Taste -/v im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheint die entsprechende Anzeige für den Service-Mode.
- 4. Die einzelnen Funktionen mit Hilfe der ROTEN und GRÜNEN Taste anwählen.
- 5. Mit der GELBEN und BLAUEN Taste die Werte der einzelnen Funktionen ändern.
- 6. Nach jeder Einstellung die Taste STR auf der Fernbedienung drücken, um die geänderten Werte abzuspeichern.
- 7. Zum Verlassen des Service-Modus die "N" Taste auf der Fernbedienung drücken.

Abgleichfunktion		Einstellung / Besondere Merkmale			
Horizontale position	H-Pos 061	Optimale Einstellung.			
Vertikale Position	V-Pos 005	Optimale Einstellung.			
Horizontale Amplitude	H-Amp 055	Optimale Einstellung.			
Vertikale Amplitude	V-Amp 054	Optimale Einstellung.			
OW-amplitude	EW-Amp1 - 030	Optimale Einstellung.			
Lower corner	Lower corner 007	Optimale Einstellung.			
Trapez-Kompensation	. Trapez 1 047	Optimale Einstellung.			
Upper corner	Upper corner 006	Optimale Einstellung.			
Vertikale linearität	V-Lin 006	Optimale Einstellung.			
Vertikale Symmetrie	V-Sym 002	Optimale Einstellung.			
Angle	Angle 000	Optimale Einstellung.			
Bow	Bow 005	Optimale Einstellung.			
DVCO	DVCO - 005	Ein Farbbalken-Testbild empfangen. Zum Abgleich des Farboszillators (DVCO) die blau Taste drücken. Nachdem ein leichtes Flackern in den Farbbalken zum Stillstand gekommen ist, die STR-Taste drücken.			
Cut-off	Cut-off 0171	Einen Oszillographen an die blaue Katode der Bildröhre anschliessen. STR -Taste			
Ug2 Test	Ug2 0155 O.K.	drücken und Mit der gelben und blauen Taste den CUT-OFF Wert auf 160V ± 5V abgleichen und mit der STR-Taste abspeichern. Den Oszillograph entfernen und den Ug2 Test aufrufen. Den Abgleichwert solange ändern, bis OK auf dem Bildschirm erscheint. Den Wert abspeichern. Black Level 160V ± 5V GND			
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimale Einstellung.			
Sub-Brightness	Sub-Brightness 000	Optimale Einstellung.			



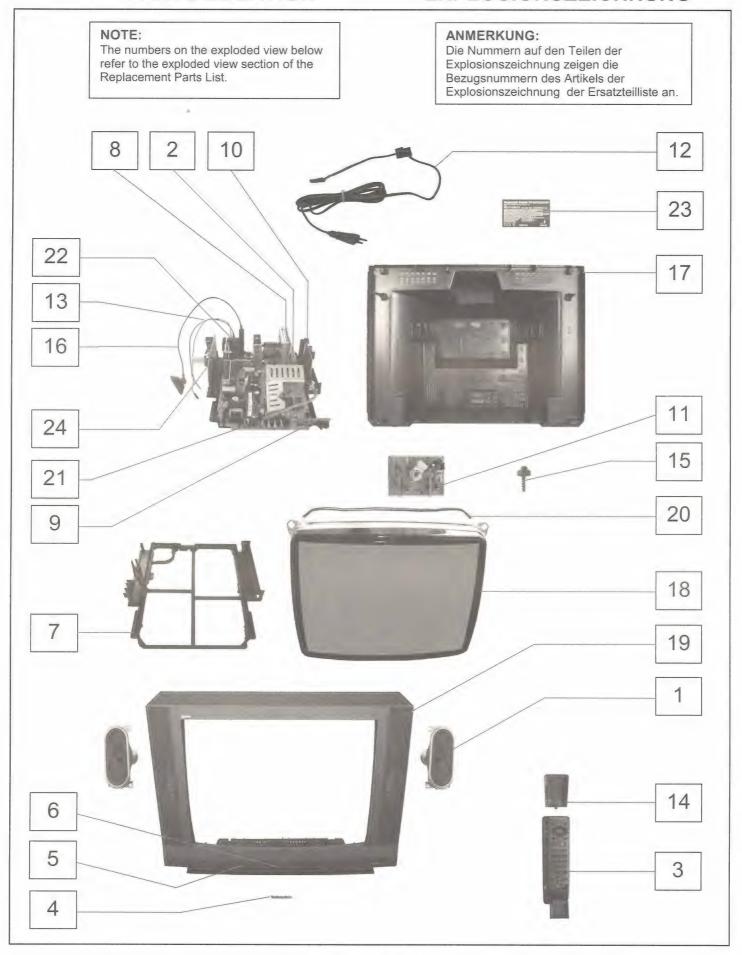






PARTS LOCATION

EXPLOSIONSZEICHNUNG



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by riangle mark have special characteristics important for safety.

When replacing any of these components, use only manufacturers specified parts.

* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Description Cct Ref Parts Number COMMON PARTS **EXPLODED VIEW** EASG12D531R2 SPEAKER 1 TUNER 2 ENG29505GR REMOTE CONTROL 3 FUR511211 TBM8E1928 PANASONIC BADGE Δ TBX8E083 POWER BUTTON 5 DOOR LID TKP8E1322 **CHASSIS FRAME** TMX8E042-2 A F P.C.B. TNP8EF007AD 8 Δ TNP8EN016AF N P.C.B. 9 A WPCB TNP8EW002AB 10 Δi Y P.C.B. TNP8EY018AG 11 A POWER CORD TXASX01CJNG1 12 A FOCUS LEAD ASSY TXJ/FC0DEG 13 BATTERY COVER (REMOTE) UR51EC904A 14 **CRT FIXING SCREW** VP17005-32 15 ANODE LEAD Δ ZTUZAE550A 16 MISCELLANEOUS COMPONENTS LID CATCH TEK6940 POWER BUTTON SPRING TES8E015 LED WINDOW TKP8E1321 LED HOLDER TMW8E027 BATTERY PACK UM-3DJ-2P PLCC-84-T 84 PIN IC SOCKET IC1101S PCB BRACKET PCH₂ TMX8E041 PCB BRACKET TMX8E041 PCH3 I.C.s AUDIO OUTPUT IC251 LA4282 **RGB OUTPUT** IC351 TDA6101Q/N3 **RGB OUTPUT** TDA6101Q/N3 IC361 TDA6101Q/N3 **RGB OUTPUT** IC371 **REGULATOR** IC381 TL431CLPM VIDEO SWITCHING IC601 TEA2114 E/W CORRECTION IC701 TEA2031A IC801 STRF6654LF57 POWER SUPPLY IC850 SE140NLF4 FRROR IC AN7812LB1 12V REGULATOR IC851 AN78M09LB1 9V REGULATOR IC852

8V REGULATOR

5V REGULATOR

LED RECEIVER
MICRO PROCESSOR

REGULATOR

EPROM

RESET

AN78L08TA

BA033T-M3

AN7805LB

RPM6937-V4

SDA5450C59

M27C200110F1

MN1381-R(TA)

IC853

IC855

IC856

IC1071

IC1101

IC1102

IC1104

ERSATZTEILLISTE

Wichtiger Sicherhitshinweis

Teile, die mit einen Hinweis A gekennzeichnet sind wichtig für die Sicherhet. Solite ein Auswechsein erfordelrich sein, sind unbdingt Originalteile einzusetzen

Bei der Bestellung von Ersatzteilen, di mit * gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeicnung mit an.

Cct Ref	Parts Number	Description
IC1105	MN1381-T(TA)	RESET
IC1501	VPC3215CB8TP	VIDEO PROCESSOR
IC1502	CIP3250APSB1	C.I.P.
IC1503	SDA9401	MICRO PROCESSOR
IC1504	DDP3310BPSE4	VIDEO PROCESSOR
IC2101	MSP3410DPOC5	AUDIO PROCESSOR
FUSES		
F801	19181-3.15	FUSE
F801-1	EYF52BC	FUSE HOLDER
F801-2	EYF52BC	FUSE HOLDER
DIODES		
D101	MA3020TX	DIODE
D102	MA3020TX	DIODE
D251	TYMD0002	DIODE
D253	MA700TA	DIODE
D253	MA700TA	DIODE
D254 D351	ERA15-04V3	DIODE
D351	ERA15-04V3	DIODE
D352	ERA15-04V3	DIODE
	ERA15-04V3	DIODE
D362	ERA15-04V3	DIODE
D371	ERA15-04V3	DIODE
D372	1SS133T-77	DIODE
D376	1SS133T-77	DIODE
D377	1SS133T-77	DIODE
D378		DIODE
D387	MA2160LFS	DIODE
D453	1SS133T-77	DIODE
D454	EU02V0	
D457	1SS133T-77	DIODE
D501	1SS133T-77	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047MTA	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	1SS133T-77	DIODE
D557	TVSRU2AMLFA1	
D558	EU02V0	DIODE
D560	RH3GLF102	DIODE
D580	FMV-3GULF730	DIODE
D601	1SS133T-77	
D602	1SS133T-77	DIODE
D603	1SS133T-77	DIODE
D604	1SS133T-77	DIODE
D609	1SR124-4AT82	DIODE
D620	1SS133T-77	DIODE
D701	1SS133T-77	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29T-BTA	DIODE
D705	MTZJT776.2B	DIODE
D706	MA165TA5VT	DIODE
D707	AU02V0	DIODE
D708	1SS133T-77	DIODE

	Cct Ref	Parts Number	Description	_
	D709	MTZJT-778.2C	DIODE	
	D710	MTZJT-7716C	DIODE	
	D801	RBV-608LF-B	DIODE	
	D803	1SR124-4AT82	DIODE	
	D804	1SR124-4AT82	DIODE	
	D805	SFH617A-20P6	PHOTO COUPLER	A
	D806	1SR124-4AT82	DIODE	
	D850	RU4BLF-L1	DIODE	
	D851	MTZJT776.2B	DIODE	
	D852	1SS133T-77	DIODE	
	D853	TYMD0002	DIODE	
	D854	S3L20U04P15	DIODE	
	D855	D10SC6MRL	DIODE	
	D856 D857	RU4AMLF-M1 MTZJT-775.1A	DIODE	
	D858	1SS133T-77	DIODE	
	D859	1SS133T-77	DIODE	
	D860	1SS133T-77	DIODE	
	D861	1SS133T-77	DIODE	
	D862	MTZJT-7736A	DIODE	
	D863	1SS133T-77	DIODE	
	D864	1SS133T-77	DIODE	
	D865	1SS133T-77	DIODE	
	D866	1SS133T-77	DIODE	
	D867	EK06-V0	DIODE	
	D868	1N4150T-77	DIODE	
	D869	1N4150T-77	DIODE	
	D870	1SS133T-77	DIODE	
	D871	1N4150T-77	DIODE	
	D873	MTZJT-775.6C	DIODE	
	D874	1SR124-4AT82	DIODE	
	D875	BZX79A75A26A	DIODE	
	D890	1SS133T-77	DIODE	
	D891	1SS133T-77	DIODE	
	D901	1SS254T-77	DIODE	
	D902	1SS254T-77	DIODE	
	D903	1SS254T-77	DIODE	
	D907	1SS133T-77	DIODE	
	D910	R2KNLFA1	DIODE	
	D1071 D1072	SLR56UR3FS	LED	
	D1072	MTZJT-778.2C 1SS133T-77	DIODE DIODE	
	D1131	MTZJT-775.6C	DIODE	
	D2101	MA723TA5	DIODE	
	D2101	MA723TA5	DIODE	
	D2103	MA723TA5	DIODE	
	D2104	MA723TA5	DIODE	
	D2105	MTZJT-778.2C	DIODE	
	D2303	MA723TA5	DIODE	
	D2304	MA723TA5	DIODE	
	D3351	1SS254T-77	DIODE	
	D3352	1SS133T-77	DIODE	
	D3353	1SS133T-77	DIODE	
	D3354	1SS133T-77	DIODE	
	R802	232266296706	THERMISTOR	
	TRANSIS	STORS		
	Q101	BC847B	TRANSISTOR	
	Q102	BC847B	TRANSISTOR	
	Q103	BC847B	TRANSISTOR	
	Q104	BC847B	TRANSISTOR	
	Q105	BC847B	TRANSISTOR	
	Q251	2SD1328STX	TRANSISTOR	
	Q252	2SD1328STX	TRANSISTOR	
	Q253	BC847B	TRANSISTOR	
	Q254	BC847B	TRANSISTOR	
	Q351	TYMQ0002	TRANSISTOR	
1			•	

Cot Def	Doube News how	Donalistic-	
Cct Ref	Parts Number	Description	
Q361	TYMQ0002	TRANSISTOR	
Q371	TYMQ0002	TRANSISTOR	
Q451	BC857B	TRANSISTOR	
Q503	2SK2962TPE6	TRANSISTOR	
Q551	2SC5144LB228	TRANSISTOR	
Q552 Q601	2SC1473ATA BC847B	TRANSISTOR TRANSISTOR	
Q701	BC857B	TRANSISTOR	
Q701	BC847B	TRANSISTOR	
Q703	IRF644R-M3S	TRANSISTOR	
Q850	2SD2396K-M3	TRANSISTOR	
Q851	BC857B	TRANSISTOR	
Q852	2SD1858TV2	TRANSISTOR	
Q853	BC847B	TRANSISTOR	
Q854	BC847B	TRANSISTOR	
Q855	BC847B	TRANSISTOR	
Q856	BC847B	TRANSISTOR	
Q857	2SA1018QTA	TRANSISTOR	
Q905	BC847B	TRANSISTOR	
Q906	BC847B	TRANSISTOR	
Q907	BC857B	TRANSISTOR	
Q908	2SA1535ARLB	TRANSISTOR	
Q909	2SC3944ARLB	TRANSISTOR	
Q1051 Q1052	BC847B BC847B	TRANSISTOR TRANSISTOR	
Q11032	BC847B	TRANSISTOR	
Q1104 Q1105	BC847B	TRANSISTOR	
Q1106	BC847B	TRANSISTOR	
Q1107	BC847B	TRANSISTOR	
Q1108	BC847B	TRANSISTOR	1
Q1501	BC847B	TRANSISTOR	
Q1502	BC857B	TRANSISTOR	i
Q1503	BC847B	TRANSISTOR	
Q1504	BC847B	TRANSISTOR	
Q1505	BC857B	TRANSISTOR	
Q1506	BC847B	TRANSISTOR	
Q1507	BC847B	TRANSISTOR	
Q1508	BC857B	TRANSISTOR	ĺ
Q1509	BC847B	TRANSISTOR	
Q1510 Q1511	BC847B	TRANSISTOR	
Q1511	BC857B BC847B	TRANSISTOR TRANSISTOR	
Q1512	BC847B	TRANSISTOR	
Q1514	BC847B	TRANSISTOR	İ
Q1515	BC847B	TRANSISTOR	
Q2101	BC857B	TRANSISTOR	
Q2102	BC857B	TRANSISTOR	
Q2103	BC857B	TRANSISTOR	
Q2301	BC847B	TRANSISTOR	İ
Q2302	BC857B	TRANSISTOR	
Q2303	BC847B	TRANSISTOR	
Q2304	BC857B	TRANSISTOR	
Q3006	BC847B	TRANSISTOR	1
Q3007	BC847B	TRANSISTOR	
Q3352	BC857B	TRANSISTOR	
	ORMERS		
T501	ETH19Y193AY	TRANSFORMER	
T801	ETS42AE296AD	TRANSFORMER	A
T802	ETP35KAN619U	TRANSFORMER	Δ
COILS			
J212	EXCELSA35V	COIL	
L101	TLT100K991R	COIL	
L102	TLT068K991R	COIL	
L103	EXCELSA35B	COIL	i
L104	TLTACT4R7K	COIL	
L105	TLTACTR47K	COIL	

Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	1		
L106	TLTACT100K	COIL	X1502	4730007341	CRYSTAL			
L107	TLTACT6R8K	COIL	X2101	4730007158	CRYSTAL			
L114	ELJFC2R2KF	COIL	RESIST	ORS				
L115	ELJFC2R2KF	COIL	C510	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L301	TLTACT4R7K	COIL	JA1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L381	TLT220K991R	COIL	JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L382	ELESN6R8KA	COIL	JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L451	EXCELSA35T	COIL	JA4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L501	EXCELSA35T	COIL	JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L586	EXCELDR35C	COIL	JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L606	ELESN100KA	COIL	JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L701	ELC18B271E	COIL	JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L704 L705	ELC10D332E EXCELDR35V	COIL	JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L850	EXCELSA35T	COIL	JA10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L851	EXCELSA35T	COIL	JA12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L852	ELEIE470KA	COIL	JA13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L855	EXCELSA35T	COIL	JA14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ω Ο
L856	EXCELSA39V	COIL	JA15	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L910	EXCELSA35T	COIL	JA16	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L911	EXCELSA35T	COIL	JA17	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L912	EXCELSA35T	COIL	JA18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΟ
L1103	TLTACT100K	COIL	JA19	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1104	EXCELSA35T	COIL	JA20	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1105	ELJFC2R2KF	COIL	JA101	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1501	ELESN2R2KA	COIL	JA102	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1502	ELESN2R2KA	COIL	JA103	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1503	ELESN2R2KA	COIL	JA104	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1504	ELESN2R2KA	COIL	JA105	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1505	ELESN100KA	COIL	JA106	ERJ8GEY0R00	S.M.CARB	.125W	5%	Ο Ω
L1506	ELESN100KA	COIL	JA107	ERJ8GEY0R00	S.M.CARB	.125W	5%	Ωο
L1507	ELESNR22KA	COIL	JA108	ERJ8GEY0R00	S.M.CARB	.125W	5%	Ωο
L1508	ELESNR22KA	COIL	JA109	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1509	ELESN100KA	COIL	JA110 JA111	ERJ8GEY0R00 ERJ8GEY0R00	S.M.CARB	.125W .125W	5%	Ωο
L1510	ELESN100KA	COIL	JA112	ERJ8GEY0R00	S.M.CARB S.M.CARB	.125W	5% 5%	0 Ω 0 Ω
L1514	ELESN100KA	COIL	JA112	ERJ8GEY0R00	S.M.CARB	.125W	5%	0Ω
L1515	ELESNR39KA	COIL	JA114	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1516	ELESN4R7KA	COIL	JA115	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1517	ELESN4R7KA	COIL	JA116	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1518	ELESN4R7KA	COIL	JA117	ERJ8GEY0R00	S.M.CARB	.125W	5%	ΩΟ
L1519	ELESNR39KA	COIL	JA118	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1520	ELESN2R2KA	COIL	JA119	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1521	ELESN1R0KA	COIL	JA201	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1522	ELESN2R2KA	COIL	JA202	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1523	ELESN2R2KA	COIL	JSE3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1524	ELESN2R2KA	COIL	JSE4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1525	ELESN100KA	COIL	JSE5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1526	ELESN100KA	COIL	JSE6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1527	ELESN100KA	COIL	JSE10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1528	ELESN100KA	COIL	JSE12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1529	ELESN100KA	COIL	JSE13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L2101	TLTACT100K	COIL	JSE18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L2103	EXCELSA35T	COIL	JSE26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L2104	TLTACT4R7K	COIL	JSE33	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L3001	ELEMV1R5MA	COIL	JSE35	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L3002	ELEMV1R5MA	COIL	JSE42	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L3003	ELEMV1R5MA	COIL	JSE43	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω
L3004	ELEMV1R5MA	COIL	JSE45	ERJ8GEY0R00	S.M.CARB	.125W	5%	Ο Ω
FILTERS			JSE46	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L802	ELF18N012A	LINE FILTER	JSE47	ERJ8GEY0R00	S.M.CARB	.125W	5%	Ο Ω
L804	ELF18N012A	LINE FILTER	JSF1	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
X101	EFCT6504BF	FILTER	JSF2	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
X102	EFCT7004BN	CERAMIC FILTER	JSF3	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
	U C		JSY04	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
CRYSTA	ILO							
CRYSTA X1101	Al060006AD	CRYSTAL	R101 R102	ERJ6GEYJ331 ERJ6GEYJ103	S.M.CARB S.M.CARB	0.1W 0.1W	5% 5%	330 Ω 10K Ω

Cct Ref	Parts Number	Description				Cct Ref	Parts Number	Description			
R103	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	R463	ERDS2TJ222T	CARBON	0.5W	5%	2K2 Ω
R104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	R464	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	R467	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω	R502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	R503	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
108	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R507	ERG2ANJP330H	METAL	2W	5%	33 Ω
109	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R509	ERG1SJ222E	METAL	0.5W	5%	2K2 Ω
R110	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R510	ERG1SJ222E	METAL	0.5W	5%	2K2 Ω
R111	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	R551	ERX3SJSR33H	METAL	3W	5%	R33 Ω
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	R558	ERDS1TJ124T	CARBON	0.5W	5%	120K Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	R561	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2Κ2 Ω	R563	ERJ6GEYJ824	S.M.CARB	0.1W	5%	820K Ω
118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	R564	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R251	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	R567	ERF7ZK1R0	MOUND	7W	10%	1 Ω
252	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2Κ7 Ω	R568	ERDS1TJ120T	CARBON	0.5W	5%	12 Ω
253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R581	ERQ2CJP821S	METAL	2W	5%	820 Ω
R254	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	R582	ERG3FJ471H	METAL	3W	5%	470 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R583	ERG3FJ331H	METAL	3W	5%	330 Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R603	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R257	ERJ6GEYJ270	S.M.CARB	0.1W	5%	27 Ω	R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R258	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2Κ7 Ω	R605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R259	ERJ6GEYJ270	S.M.CARB	0.1W	5%	27 Ω	R606	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R607	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R608	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R609	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω
263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	R610	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2Κ4 Ω
264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R611	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
265	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω	R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
266	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω	R620	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R267	ERF7ZK4R7	WOUND	7W		4R7 Ω	R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R647	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R269	ERQ14AJ101P	METAL	0.25W	5%	100 Ω	R648	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3Κ3 Ω
R271	ERJ6GEYJ103	S.M.CARB	0.23 V V	5%	10K Ω	R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
	ERF7ZK4R7	WOUND	7W		4R7 Ω	R701	ERQ12AJ330P	METAL	0.5W	5%	330 Ω
R272	ERC12AJ151P	FUSIBLE	0.5W	5%	150 Ω	R702	ERX2SJS2R7H	FUSIBLE	2W	5%	2R7 Ω
₹350	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2Κ Ω	R703	ERG2FJ821H	METAL	2W	5%	820 Ω
R352			0.5W	5%	68K Ω	R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R355	ERG1ANJP683H	METAL		5%	0 Ω	: R705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R356	ERJ6GEY0R00	S.M.CARB	0.1W			R705	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R358	ERDS1TJ821T	CARBON	0.5W	5%	820 Ω		ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R360	ERO50PKF8251	METAL	0.5W	5%	8M2 Ω	R707			0.1W	5%	39K Ω
R362	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2Κ Ω	R708	ERJ6GEYJ393	S.M.CARB			39K Ω
R365	ERG1ANJP683H	METAL	0.5W	5%	68K Ω	R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	
R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΩ	R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27Κ Ω
368	ERDS1TJ821T	CARBON	0.5W	5%	820 Ω	R711	ERG1SJ101E	METAL	1W	5%	100 Ω
372	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2Κ Ω	R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω
375	ERG1ANJP683H	METAL	0.5W	5%	68K Ω	R714	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22Κ Ω
R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ω 0	R715	ERDS2TJ272T	CARBON	0.25W	5%	2Κ7 Ω
378	ERDS1TJ821T	CARBON	0.5W	5%	820 Ω	R716	ERQ12AJ680P	METAL	0.5 W	5%	68 Ω
382	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω	R718	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
383	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω	R719	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R385	ERQ12HJ1R2P	METAL	0.5W	5%	1R2 Ω	R720	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1 M Ω
R394	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	R721	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
396	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	R801	ERC12ZGK335V	SOLID	0.5W	10%	змз Ω
398	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	R805	ERD25TJ473T	CARBON	0.25W	5%	47K Ω
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	R806	ERD25TJ100T	CARBON	0.25W	5%	10 Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	R807	ERD25TJ332T	CARBON	0.25W	5%	3 K 3 Ω
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	R809	ERD25TJ681T	CARBON	0.25W	5%	680 Ω
R454	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	R810	ERW2PKR27P	WOUND	2W	10%	R27 Ω
R455	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22Κ Ω	R811	ERW2PKR27P	WOUND		10%	R27 0
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22Κ Ω	R813	ERF7ZK2R7	WOUND		20%	2R7 Ω
R458	ERDS1TJ1R0T	CARBON	0.5W	5%	1 Ω	R814	ERD25TJ473T	CARBON	0.25W	5%	47K Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	R815	ERD25TJ222T	CARBON	0.25W	5%	2Κ2 Ω
R461	ERX2SJS1R2H	FUSIBLE	2W	5%	1R2 Ω	R850	ERD25TJ122T	CARBON			1K2 Ω
									0.25W	5%	

Cct Ref	Parts Number	Description				1	Cct Ref	Parts Number	Description			
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω		R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω	i	R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R854	ERG2FJ223H	METAL	2W	5%	22K Ω		R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω		R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R856	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω		R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7 K 5 Ω		R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω		R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4Κ7 Ω
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω		R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω		R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R862	ERDS2TJ272T	CARBON	0.25W	5%	2Κ7 Ω		R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R863	ERDS1TJ560T	CARBON	0.5W	5%	56 Ω		R1124	ERJ6GEYJ1R0	S.M.CARB	0.1W	5%	1 Ω
R864	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω		R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω		R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω		R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω		R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2Κ7 Ω		R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω		R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R872	ERG1SJ183P	METAL	1 W	5%	18K Ω	1	R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R873	ERG1SJ223P	METAL	1W	5%	22K Ω	i	R1133	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2Κ7 Ω
R874	ERDS2TJ104T	CARBON	2W	5%	100K Ω		R1136	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27Κ Ω
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R877	ERW2PKR47P	WOUND	2W	10%	R47 Ω	1	R1138	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω		R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R879	ERG3FJ680H	METAL	ЗW	5%	68 Ω		R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R880	ERG5FJ120H	METAL	5W	5%	12 Ω		R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R882	ERG2FJ330H	METAL	2W	5%	33 Ω		R1142	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R890	ERX1FJ3R9P	FUSIBLE	1W	5%	3R9 Ω		R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω		R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R914	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω		R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R915	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω		R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω		R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R917	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	i	R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R918	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω		R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R919	ERQ14AJW390E	FUSIBLE	0.25W	5%	39 Ω		R1154	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R920	ERQ14AJW390E	FUSIBLE	0.25W	5%	39 Ω		R1155	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R922	ERDS2TJ683T	CARBON	2W	5%	68K Ω		R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R923	ERDS2TJ683T	CARBON	2W	5%	68K Ω		R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R924	ERDS1FYJ390T	CARBON	0.5W	5%	39 Ω		R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R925 R926	ERJ6GEY0R00	S.M.CARB S.M.CARB	0.1W	5%	ΩΟ		R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ω 0
R927	ERJ6GEY0R00	CARBON	0.1W	5%	0 Ω	i	R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R928	ERDS2TJ122T		0.25W	5% 5%	1K2 Ω 5R6 Ω		R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R929	ERDS2TJ5R6T ERDS1FVJ471T	CARBON CARBON	0.25W 0.5W	5%	470 Ω		R1162	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2Κ2 Ω
R931	ERDS1FYJ390T	CARBON	0.5W	5%	39 Ω		R1163 R1164	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R935	ERQ14AJW3R9E	FUSIBLE	0.25W	5%	389 Ω		R1165	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R936	ERQ1CJP102S	FUSIBLE	1W	5%	1K Ω		R1166	ERJ6GEYJ512 ERJ6GEYJ912	S.M.CARB S.M.CARB	0.1W 0.1W	5% 5%	5K1 Ω 9K1 Ω
R937	ERQ14AJW100E	FUSIBLE	0.25W	5%	10 Ω		R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R938	ERDS2TJ122T	CARBON	0.25W	5%	1K2 Ω		R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R941	ERDS2TJ5R6T	CARBON	0.25W	5%	5R6 Ω		R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1ΚΩ		R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27Κ Ω
R1052	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω		R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1053	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22Κ Ω
R1054	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω	1	R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1071	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω		R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω		R1501	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω		R1502	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R1504	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	E .	R1505	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω		R1506	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω		R1507	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4Κ7 Ω	:	R1508	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω		R1509	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1111	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R1510	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
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Cct Ref	Parts Number	Description			e e eres as		Cct Ref	Parts Number	Description				
R1511	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R1585	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1512	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R1586	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1513	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω		R1587	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R1514	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω		R1588	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω	:
R1515	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω		R1589	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1 K 5 Ω	
R1517	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω	:	R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1521	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	:	R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1522	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω		R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1523	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω		R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R1524	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω	
R1525	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R1526	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω		R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1527	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω		R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	:
R1528	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1529	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω		R2115	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R1530	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	1	R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1531	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	1	R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω		R2118	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R1533	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω		R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1534	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R1535	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1536	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω		R2303	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1537	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω		R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1538	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω		R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω	
R1539	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω		R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1540	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω		R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	1
R1541	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1542	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω		R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1543	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1ΚΩ	
R1544	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1545	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1546	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω		R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1547	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1548	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1549	ERJ6GEYJ101	S.M.CARB	0.1W	5% 5%	100 Ω		R3005	ERJ6GEYJ101 ERJ6GEYJ471	S.M.CARB	0.1W	5%	100 Ω	
R1550 R1551	ERJ6GEYJ101 ERJ6GEYJ101	S.M.CARB S.M.CARB	0.1W 0.1W	5%	100 Ω 100 Ω		R3006 R3007	ERJ6GEYJ101	S.M.CARB S.M.CARB	0.1W 0.1W	5% 5%	470 Ω 100 Ω	
R1552	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3007	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1553	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3010	ERDS2TJ750T	CARBON	0.1VV	5%	75 Ω	
R1554	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3013	ERJ6GEYJ101	S.M.CARB	0.23VV	5%	100 Ω	
R1555	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1556	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1557	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1558	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1559	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	i
R1563	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1564	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1565	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1566	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1567	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1568	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R1569	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3101	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω	
R1570	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3102	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω	
R1571	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3103	ERG2FJ221H	METAL	2W	5%	220 Ω	
R1572	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3104	ERG2FJ221H	METAL	2W	5%	220 Ω	i
R1573	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω	1
R1574	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6Κ8 Ω		R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1575	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω		R3356	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R1577	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	į	R3357	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R1578	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	1	R3358	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	-
R1579	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3360	ERDS1TJ471T	CARBON	0.5W	5%	470 Ω	-
R1580	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3361	ERO50PKF1133	METAL	0.5W	5%	110K Ω	
R1584	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω		R3362	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
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Cct Ref	Parts Number	Description					Cct Ref	Parts Number	Description			
R3363	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	1	C374	ECQE2104KF3	FILM	250V	100nF	
R3364	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		C375	ECKR2H102KB5	CERAMIC	500V	1nF	
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	1	C378	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	I	C381	ECA1CM101B	ELECT	16V	100µF	
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		C382	ECA1CM471B	ELECT	16V	470µF	
CAPACI	TORS						C383	ECJ2VB1H103K	ELECT	350V	10nF	i
	ECJ2VB1C104K	ELECT	350V	1	00nF	!	C384	ECQE2104KFW	FILM	250V	100nF	ļ
C101		ELECT	350V		00nF		C385	ECA2EM220B	ELECT	250V	22µF	
C102	ECJ2VB1C104K ECJ2VF1H104Z	ELECT	350V		00nF		C386	ECKW3D152JBN	CERAMIC	2kV	1.5nF	1
C103			50V		56pF		C451	ECUV1H102JX	S.M. CAP	50V	1nF	-
C105	ECUV1H560JCX	S.M. CAP	50V		56pF		C453	ECUV1H152KBX	S.M. CAP	50V	1.5 pF	
C106	ECUV1H560JCX	S.M. CAP	350V		00nF		C454	ECQV1H105JL3	FILM	50V	1µF	
C107	ECJ2VF1H104Z	ELECT	16V		47μF		C455	ECA1HM100B	ELECT	50V	10µF	!
C108	ECA1CM470B	ELECT	50V		1nF		C456	ECA1HHG221B	ELECT	50V	220µF	
C109	ECUV1H102JCX	S.M. CAP			10nF		C459	ECQB1224KFW	FILM	100V	220nF	
C110	ECJ2VF1H103Z	ELECT	350V				C508	ECQB1H103KF3	FILM	50V	10nF	- 1
C111	ECA1HMR33B	ELECT	50V		330nF		C509	ECA1VM470B	ELECT	35V	47µF	
C114	ECJ2VF1H104Z	ELECT	350V		100nF		C511	ECQE2683KFW	FILM	100V	68nF	1
C115	ECJ2VF1H103Z	ELECT	350V		10nF		C552	ECWH15H102JN	FILM	1500V	1nF	
C116	ECA1CM221B	ELECT	16V		220µF		C557	ECKR2H471KB5	CERAMIC	500V	470pF	
C117	ECJ2VF1H103Z	ELECT	350V		10nF		C558	ECA1HHG471E	ELECT	50V	470µF	
C118	ECJ2VF1H104Z	ELECT	350V		100nF		C561	ECA1EHG102B	ELECT	25V	1000µF	
C119	ECA1CM221B	ELECT	16V		220µF	1	C562	ECKR2H101KB5	CERAMIC	500V	100pF	
C120	ECA1CM221B	ELECT	16V	2	220µF		C563	ECA2EHG220B	ELECT	250V	20µF	
C121	ECJ2VB1H103K	ELECT	350V		10nF		C564	ECEA2AU2R2B	ELECT	100V	2.2µF	1
C124	ECUV1H220JCX	S.M. CAP	50V		22pF		C565	ECQP1H273JZW	FILM	100V	27nF	
C125	ECUV1H100DCX	S.M. CAP	50V		10pF		C566	ECKR2H471KB5	CERAMIC	500V	470pF	
C133	ECJ2YB1H104K	ELECT	350V		100nF		C567	ECA1EHG102B	ELECT	25V	1000µF	
C134	ECJ2YB1H104K	ELECT	350V		100nF	i	C568	ECKR2H471KB5	CERAMIC	500V	470pF	!
C135	ECUV1H104KBW	S.M. CAP	50V		100nF		C569	ECKR2H102KB5	CERAMIC	500V	1nF	
C136	ECJ2YB1H104K	ELECT	350V		10 0 nF		C583	ECWH20562JVB	FILM	200V	5.6nF	;
C138	ECJ2YB1H104K	ELECT	350V	•	100nF		C587	ECQF4223JZH	FILM	400V	22nF	!
C251	ECA1EM470B	ELECT	25V		47µF		C608	ECJ2VB1H103K	ELECT	350V	10nF	
C252	ECJ2VB1H103K	ELECT	350V		10nF		C609	ECUV1H270JCX	S.M. CAP	50V	27pF	1
C253	ECA1HM4R7B	ELECT	50V		4.7µF		C623	ECUV1H121JCX	S.M. CAP	50V	120pF	
C254	ECQV1H684JL3	FILM	50V	(680nF		C624	ECUV1H121JCX	S.M. CAP	50V	120pF	
C255	ECA1EM101B	ELECT	25V	•	100µF		C625	ECQV1H124JL3	FILM	50V	220nF	
C256	ECJ2VB1H103K	ELECT	350V		10nF		C626	ECA1CM100B	ELECT	16V	10µF	i
C257	ECA1HM4R7B	ELECT	50V		4.7µF		C627	ECJ2VB1C104K	ELECT	350V	100nF	
C258	ECA1EM470B	ELECT	25V		47µF			ECQV1H224JL3	FILM	50V	220nF	
C259	ECQV1H684JL3	FILM	50V	(680nF		C628	ECQV1H224JE3 ECA1HHG101B	ELECT	50V	100µF	
C260	ECA1VM102B	ELECT	35V	10	000µF		C701		-	350V	100p1	
C261	ECA1VM102B	ELECT	35V	10	000µF		C702	ECJ2VB1H103K	ELECT	50V	10µF	
C262	ECQV1H274JL3	FILM	50V		270nF		C703	ECA1HHG100E	ELECT		22nF	
C263	ECA1HM010B	ELECT	50V		1µF	:	C704	ECJ2VB1H223K	ELECT	350V		
C264	ECA1HHG222E	ELECT	50V	2:	200µF		C705	ECQB1H102KF3	ELECT	50V	1nF	
C265	ECQV1H274JL3	FILM	50V		270nF		C709	ECQV1H105JL3	FILM	50V	1µF	A
C266	ECA1HM010B	ELECT	50V		1µF		C801	ECQE2A474MWB		250V	470nF	<u>∧</u>
C267	ECJ2YB1H104K	ELECT	350V		100nF		C804	222233510224	FILM	250V	220nF	A
C268	ECJ2YB1H104K	ELECT	350V		100nF		C806	ECKWNA101MB	CERAMIC	400V	100µF	Δ
C270	ECJ2YB1H104K	ELECT	350V		100nF	1	C807	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C350	ECUV1H102JCX	S.M. CAP	50V		1nF	i	C808	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C352	ECJ2VF1H224Z	ELECT	350V		220nF		C809	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C353	ECJ2YB1H104K	ELECT	350V		100nF	,	C810	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C354	ECQE2104KF3	FILM	250V		100nF		C811	222215946221	ELECT	400V	220µF	
C355	ECKR2H102KB5	CERAMIC	500V		1nF		C814	ECKW3D102KBP	CERAMIC	2kV	1nF	
C358	ECUV1H222JCX	S.M. CAP	50V		2.2nF		C815	ECKR1H471KB5	CERAMIC	50V	470pF	
C360	ECUV1H102JCX	S.M. CAP	50V		1nF		C816	ECA1EM101B	ELECT	25V	100µF	
C362	ECJ2VF1H224Z	ELECT	350V		220nF	!	C817	ECQE6104KFW	FILM	600V	100nF	٨
C363	ECJ2YB1H104K	ELECT	350V		100nF		C818	ECKCWS332MEB		1,2kV	3.3nF	Δ
C364	ECQE2104KF3	FILM	250V		100nF		C819	ECQB1H152KF3	FILM	50V	1.5nF	
C365	ECKR2H102KB5	CERAMIC	500V		1nF	i	C820	ECJ2VF1H104Z	ELECT	350V	100nF	
C368		S.M. CAP	50V		2.2nF		C839	ECA1CM100B	ELECT	16V	10µF	
C369	ECUV1H222JCX	S.M. CAP	50V		22pF		C840	ECJ2YB1H104K	ELECT	350V	100nF	
- JUS	ECUV1H220JCX	S.M. CAP	50V		1nF		C841	ECA1AM222B	ELECT	10V	2200µF	
i	ECHVADA001CA		JUV		(111			ECA4CR4400D	FLEOT	401/	40	
C370 C372	ECUV1H102JCX ECJ2VF1H224Z	ELECT	350V		220nF		C842	ECA1CM100B	ELECT	16V	10µF 470pF	

Cct Ref	Parts Number	Description			Cct Ref	Parts Number	Description	1	
C851	ECA2CHG221E	ELECT	160V	220µF	C1505	ECUV1H271JCX	S.M. CAP	50V	270pF
2852	ECA2CHG101E	ELECT	160V	100µF	C1506	ECUV1H271JCX	S.M. CAP	50V	270pF
2853	ECKR2H471KB5	CERAMIC	500V	470pF	C1507	ECUV1H271JCX	S.M. CAP	50V	270pF
854	ECA1EM102B	ELECT	25V	1000µF	C1508	ECUV1H271JCX	S.M. CAP	50V	270pF
855	ECKR2H471KB5	CERAMIC	500V	470pF	C1509	ECQV1H684JL3	FILM	50V	680nF
856	ECA1AHG332B	ELECT	10V	3.3nF	C1510	ECQV1H684JL3	FILM	50V	680nF
857	ECKR2H471KB5	CERAMIC	500V	470pF	C1511	ECQV1H684JL3	FILM	50V	680nF
858	ECEA1HGE102E	ELECT	50V	1000µF	C1512	ECQV1H684JL3	FILM	50V	680nF
859	ECJ2VF1H104Z	ELECT	350V	100nF	C1513	ECUV1H102JCX	S.M. CAP	50V	1nF
860	ECA1CM101B	ELECT	16V	100µF	C1514	ECEA1CKA100B	ELECT	16 V	10µF
862	ECJ2VF1H104Z	ELECT	350V	100nF	C1515	ECJ2VB1H103K	ELECT	350V	10nF
863	ECA1CM101B	ELECT	16V	100µF	C1516	ECEA1CKA101B	ELECT	16V	100µF
864	ECJ2VF1H104Z	ELECT	350V	100nF	C1517	ECJ2YB1H473K	ELECT	350V	47nF
865	ECA1CM100B	ELECT	16V	10µF	C1518	ECEA1CKA100B	ELECT	16V	10µF
866	ECJ2VF1H104Z	ELECT	350V	100nF	C1519	ECUV1H050CCX	S.M. CAP	50V	50pF
867	ECA1CM100B	ELECT	16V	10µF	C1520	ECUV1H050CCX	S.M. CAP	50V	50pF
868	ECA1CM100B	ELECT	16V	10µF	C1521	ECJ2VB1H103K	ELECT	350V	10nF
869	ECA1EM101B	ELECT	25V	100µF	C1522	ECEA1CKA100B	ELECT	16V	10µF
870	ECA1EM471B	ELECT	25V	470µF	C1523	ECJ2VB1H103K	ELECT	350V	10nF
871	ECA1CM332E	ELECT	16V	3300µF	C1524	ECEA1CKA100B	ELECT	16V	10µF
872	ECA1CM471B	ELECT	16V	470µF	C1525	ECJ2VB1H103K	ELECT	350V	10nF
873	ECA1CM100B	ELECT	16V	10µF	C1526	ECEA1CKA100B	ELECT	16V	10µF
875	ECA2CM4R7B	ELECT	160V	10µF	C1527	ECJ2VB1C104K	ELECT	350V	100nF
876	ECA1HHG101B	ELECT	50V	100µF	C1528	ECEA1CKA100B	ELECT	16V	10µF
902	ECA1VM101B	ELECT	35V	100µF	C1529	ECJ2VB1C104K	ELECT	350V	100nF
904	ECJ2VF1H103Z	ELECT	350V	10nF	C1530	ECEA1CKA100B	ELECT	16 V	10µF
906	ECUV1H563KBX	S.M. CAP	50V	56nF	C1531	ECJ2VB1C104K	ELECT	350V	100nF
907	ECUV1H331JCX	S.M. CAP	50V	330pF	C1532	ECEA1CKA100B	ELECT	16V	10µF
909	ECKR2H472MD5	CERAMIC	500V	4.7nF	C1540	ECUV1H222JCX	S.M. CAP	50V	2.2nF
910	ECKR2H472MD5	CERAMIC	500V	4.7nF	C1541	ECJ2VB1H333K	ELECT	350V	33nF
912	ECA2EM220B	ELECT	250V	22µF	C1542	ECJ2VB1H333K	ELECT	350V	33nF
913	ECA1CM101B	ELECT	16V	100µF	C1543	ECJ2VB1C224K	ELECT	350V	220nF
914	ECA1CM101B	ELECT	16V	100µF	C1544	ECJ2VB1H333K	ELECT	350V	33nF
916	ECA2EM220B	ELECT	250V	22µF	C1545	ECEA1CKA100B	ELECT	16V	10μF
917	ECA1HM100B	ELECT	50V	10µF	C1546	ECEA1CKA100B	ELECT	16V	10µF
918	ECJ2VF1H103Z	ELECT	350V	10nF	C1547	ECJ2VB1H103K	ELECT	350V	10nF
919	ECCR2H270JC5	CERAMIC	500V	27pF	C1548	ECJ2VB1H103K	ELECT	350V	10nF
1071	ECUV1H331JCX	S.M. CAP	50V	330pF	C1549	ECJ2VB1H103K	ELECT	350V	10nF
1072	ECJ2VB1H103K	ELECT	350V	10nF	C1550	ECJ2VB1H103K	ELECT	350V	10nF
1073	ECA1CM101E	ELECT	16V	100µF	C1551	ECJ2VB1H103K	ELECT	350V	10nF
1101	ECJ2VF1H104Z	ELECT	350V	100nF	C1552	ECJ2VB1H103K	ELECT	350V	10nF
1102	ECA0JM101B	ELECT	400V	100µF	C1553	ECEA1CKA100B	ELECT	16V	10µF
1103	ECUV1H220JCX	S.M. CAP	50V	22pF	C1554	ECJ2VB1H103K	ELECT	350V	10nF
1104	ECUV1H220JCX	S.M. CAP	50V	22pF	C1555	ECJ2VB1C104K	ELECT	350V	100nF
1105	ECUV1H101JCX	S.M. CAP	50V	100pF	C1556	ECUV1H270JCX	S.M. CAP	50V	27pF
1108	ECJ2VB1H333K	ELECT	350V	33nF	C1557	ECUV1H270JCX	S.M. CAP	50V	27pF
1111	ECA1CM100B	ELECT	16V	10µF	C1558	ECJ2VB1H103K	ELECT	350V	10nF
1112	ECJ2VB1H103K	ELECT	350V	10nF	C1559	ECEA1CKA100B	ELECT	16V	10µF
1115	ECJ3VB1C474K	ELECT	3.5KV	470nF	C1560	ECEA1CKA100B	ELECT	16V	10μF
1116	ECJ2VB1H472K	ELECT	350V	4.7nF	C1561	ECJ2VB1C104K	ELECT	350V	100nF
1117	ECJ2VF1H104Z	ELECT	350V	100nF	C1562	ECJ2VB1C104K	ELECT	350V	100nF
1118	ECJ2VB1H103K	ELECT	350V	10nF	C1563	ECJ2VB1C104K	ELECT	350V	100nF
1119	ECUV1H221JCX	S.M. CAP	50V	220pF	C1564	ECJ2VB1C104K	ELECT	350V	100nF
1120	ECJ2VF1H104Z	ELECT	350V	100nF	C1566	ECUV1H270JCX	S.M. CAP	50V	27pF
1121		S.M. CAP	50V	220pF	C1567	ECEA1CKA100B	ELECT	16V	27 pF 10µF
	ECUV1H221JCX			•	1				
1123 1124	ECUV1H471JCX	S.M. CAP S.M. CAP	50V 50V	470pF	C1568	ECJ2VB1H103K	ELECT	350V	10nF
	ECUV1H221JCX			220pF	C1569	ECEA1CKA100B	ELECT	16V	10µF
1125	ECUV1H221JCX	S.M. CAP	50V	220pF	C1570	ECJ2VB1H103K	ELECT	350V	10nF
1126	ECUV1H221JCX	S.M. CAP	50V	220pF	C1571	ECJ2VB1H103K	ELECT	350V	10nF
1127	ECUV1H561JCX	S.M. CAP	50V	560pF	C1572	ECEA1CKA100B	ELECT	16V	10µF
1129	ECUV1H270JCX	S.M. CAP	50V	27pF	C1573	ECJ2VB1H103K	ELECT	350V	10nF
1130	ECA1CM221B	ELECT	16V	220µF	C1574	ECEA1CKA100B	ELECT	16V	10µF
1501	ECUV1H271JCX	S.M. CAP	50V	270pF	C1575	ECEA1CKA100B	ELECT	16V	10µF
1502	ECUV1H271JCX	S.M. CAP	50V	270pF	C1576	ECJ2VB1H103K	ELECT	350V	10nF
1503	ECUV1H271JCX	S.M. CAP	50V	270pF	C1577	ECUV1H270JCX	S.M. CAP	50V	27pF
1504	ECUV1H271JCX	S.M. CAP	50V	270pF	C1578	ECJ2VB1H103K	ELECT	350V	10nF

Cct Ref	Parts Number	Description			Cct Ref	Parts Number	Description		
C1579	ECJ2VB1H103K	ELECT	350V	10nF	C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C1580	ECJ2VB1H103K	ELECT	350V	10nF	C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C1581	ECJ2VB1C224K	ELECT	350V	220nF	C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1582	ECJ2VB1C224K	ELECT	350V	220nF	C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1583	ECJ2VB1C224K	ELECT	350V	220nF	C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1584	ECJ2VB1C104K	ELECT	350V	100nF	C3017	ECA1CM470B	ELECT	16V	47µF
C1585	ECEA1CKA100B	ELECT	16V	10µF	C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C1586	ECJ2VB1H103K	ELECT	350V	10nF	C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C1587	ECEA1CKA100B	ELECT	16V	10µF	C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1588	ECEA1CKA100B	ELECT	16V	10µF	C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1589	ECJ2VB1H103K	ELECT	350V	10nF	C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1590	ECJ2VB1H103K	ELECT	350V	10nF	C3024	ECA1CM470B	ELECT	16V	47µF
C1591	ECEA1CKA100B	ELECT	16 V	10µF	C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C1592	ECUV1H271JCX	S.M. CAP	50V	270pF	C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C1594	ECUV1H271JCX	S.M. CAP	50V	270pF	C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1596	ECUV1H271JCX	S.M. CAP	50V	270pF	C3030	ECUV1H271JCX	S.M. CAP	50V	270pF
C1603	ECUV1H271JCX	S.M. CAP	50V	270pF	C3031	ECUV1H271JCX	S.M. CAP	50V	270pF
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF	C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF	C3101	ECJ2YB1H104K	ELECT	350V	100nF
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF	C3102	ECJ2VB1E104K	ELECT	350V	100nF
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF	C3111	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF	C3351	ECA1CM221B	ELECT	16V	220µF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF	TERMI	NALS AND LINKS			
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF				-	
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF	JK381	TJS1A5230B	CRT SOCKE		
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF	JK2301	JPJ841101320	RCA SOCKE		
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF	JK3001	0350808500	21PIN TERM	INAL	
C2111	ECA1CM100B	ELECT	16V	10μ F	SWITC	HES			
C2112	ECA1CM100B	ELECT	16V	10µF	S801	ESB92S11B	SWITCH		4
C2113	ECA1HM3R3B	ELECT	50V	3R3µF	S1201	EVQ21405R	SWITCH		
C2114	ECJ2VF1H104Z	ELECT	350V	100nF	S1202	EVQ21405R	SWITCH		
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF	S1203	EVQ21405R	SWITCH		
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF	S1204	EVQ21405R	SWITCH		
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF	S1205	EVQ21405R	SWITCH		
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF	RELAY	S			
C2121	ECA1CM100B	ELECT	16V	10µF	RL801	TSE1885-1	RELAY		Ĺ
C2122	ECJ2VF1H104Z	ELECT	350V	100nF	NEOO1	1021000-1	NELAT		
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF	DIFFE	RENCES FOR	MODEL T	X251 K	10F
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF			model i	LOLIN	
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF					
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF	EXPLO	DED VIEW			
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF	17	TKU8E00611	BACK COVE	₹	Z
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF	18	A59EAK071X54	C.R.T.		1
C2129	ECA1CM102B	ELECT	16V	1000µF	19	TKY8E531-1	CABINET		
C2130	ECA1CM331B	ELECT	16V	330µF	20	TLK8E05162	DEGAUSS C	OIL	2
C2134	ECJ2VF1H103Z	ELECT	350V	10nF	21	TNP8EE013BS	E ₽.C.B.		1
C2135	ECA1CM101B	ELECT	16V	100µF	22	ZTFM05012A	F.B.T.		4
C2136	ECJ2VF1H104Z	ELECT	350V	100nF	23	TBM8E2049	MODEL LABE	L	
C2137	ECA1CM100B	ELECT	16V	10µF	24	TNP8EP017AK	P P.C.B.		2
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF		LANEOUS COMP			-
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF				E1	
C2140	ECA1CM101B	ELECT	16V	100µF	•	TBM8E2015	PRESET LAB	EL	
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF		TPC8E4832	CARTON		
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF		TPD8E728	TOP CUSHIO		
	ECA1CM470B	ELECT	16V	47µF		TPD8E729	BOTTOM CU	PHION	
	LOT TOWN TOD	S.M. CAP	50V	47μr 2.2nF	INSTRU	ICTION BOOKS			
C2302	FCHV1H222 ICY	U.IVI. UMF		47µF		TQB8E2987A-1	GERMAN		
C2302 C2303	ECUV1H222JCX ECA1CM470B	FLECT	161/	TIME		TQB8E2987B	DUTCH		
C2302 C2303 C2304	ECA1CM470B	ELECT S.M. CAP	16V 50V	•					
C2302 C2303 C2304 C3001	ECA1CM470B ECUV1H222JCX	S.M. CAP	50V	2.2nF		TQB8E2987C-1	ITALIAN		
C2302 C2303 C2304 C3001 C3002	ECA1CM470B ECUV1H222JCX ECUV1H222JCX	S.M. CAP S.M. CAP	50V 50V	2.2nF 2.2nF		TQB8E2987C-1 TQB8E2987D-1			
C2302 C2303 C2304 C3001 C3002 C3003	ECA1CM470B ECUV1H222JCX ECUV1H222JCX ECA1CM470B	S.M. CAP S.M. CAP ELECT	50V 50V 16V	2.2nF 2.2nF 47µF			ITALIAN		
C2302 C2303 C2304 C3001 C3002 C3003 C3005	ECA1CM470B ECUV1H222JCX ECUV1H222JCX ECA1CM470B ECUV1H561JCX	S.M. CAP S.M. CAP ELECT S.M. CAP	50V 50V 16V 50V	2.2nF 2.2nF 47µF 560pF	: :: :: :	TQB8E2987D-1	ITALIAN FRENCH		
C2302 C2303 C2304 C3001 C3002 C3003 C3005 C3006	ECA1CM470B ECUV1H222JCX ECUV1H222JCX ECA1CM470B ECUV1H561JCX ECJ3VB1C474K	S.M. CAP S.M. CAP ELECT S.M. CAP ELECT	50V 50V 16V 50V 3.5KV	2.2nF 2.2nF 47µF 560pF 470nF	: 1 : 1 : - :	TQB8E2987D-1 TQB8E2987E	ITALIAN FRENCH SPANISH		
C2302 C2303 C2304 C3001 C3002 C3003 C3005 C3006 C3007	ECA1CM470B ECUV1H222JCX ECUV1H222JCX ECA1CM470B ECUV1H561JCX ECJ3VB1C474K ECUV1H222JCX	S.M. CAP S.M. CAP ELECT S.M. CAP ELECT S.M. CAP	50V 50V 16V 50V 3.5KV 50V	2.2nF 2.2nF 47µF 560pF 470nF 2.2nF	: : : : : : : : : : : : : : : : : : : :	TQB8E2987D-1 TQB8E2987E TQB8E2987F	ITALIAN FRENCH SPANISH SWEDISH		
C2302 C2303 C2304 C3001 C3002 C3003 C3005 C3006 C3007 C3008	ECA1CM470B ECUV1H222JCX ECUV1H222JCX ECA1CM470B ECUV1H561JCX ECJ3VB1C474K ECUV1H222JCX ECUV1H222JCX	S.M. CAP S.M. CAP ELECT S.M. CAP ELECT S.M. CAP S.M. CAP	50V 50V 16V 50V 3.5KV 50V	2.2nF 2.2nF 47µF 560pF 470nF 2.2nF		TQB8E2987D-1 TQB8E2987E TQB8E2987F TQB8E2987G	ITALIAN FRENCH SPANISH SWEDISH NORWEGIAN		
C2302 C2303 C2304 C3001 C3002 C3003 C3005 C3006 C3007	ECA1CM470B ECUV1H222JCX ECUV1H222JCX ECA1CM470B ECUV1H561JCX ECJ3VB1C474K ECUV1H222JCX	S.M. CAP S.M. CAP ELECT S.M. CAP ELECT S.M. CAP	50V 50V 16V 50V 3.5KV 50V	2.2nF 2.2nF 47µF 560pF 470nF 2.2nF		TQB8E2987D-1 TQB8E2987E TQB8E2987F TQB8E2987G TQB8E2987H	ITALIAN FRENCH SPANISH SWEDISH NORWEGIAN FINNISH	ı	

Cct Ref												
OCCITCI	Parts Number	Description				Cct Re	f Parts Number	Description				
I.C.s							TQB8E2987C-1	ITALIAN				
IC451	LA7845N	VERTICAL O	LITDLIT				TQB8E2987D-1	FRENCH				
IC451			UIPUI				TQB8E2987E	SPANISH				
	XLM3-01FFZ	EAROM					TQB8E2987F	SWEDISH				
DIODES							TQB8E2987G	NORWEGIA	N			
D456	MTZJT-777.5B	DIODE					TQB8E2987H	FINNISH				
D458	T3A206022	DIODE					TQB8E2987K	DANISH				
D617	MA3068MTX	DIODE				I.C.s						
D3101	MTZJT-778.2C	DIODE						VEDTION				
D3102	MTZJT-778.2C	DIODE				IC451	LA7876N	VERTICAL C	וטפוטנ			
COILS						IC1103		EAROM				
J26	EXCELDR35V	COIL				DIODE	ES					
L581	ELHKLB028B	COIL				D456	MTZJT-775.6C	DIODE				
L582	ELC18B221E	COIL				D458	EU02V0	DIODE				
L583	ELC10D3R3E	COIL				D617	MA3068MTX	DIODE				
L584	ELHKLB061B	COIL				D3101	MTZJT-778.2C	DIODE				
						D3102	MTZJT-778.2C	DIODE				
L3101	ELEBT6R8KA	COIL				COILS	3					
L3102	ELEBT6R8KA	COIL						0011				
RESISTO	ORS					J26	EXCELDR35V	COIL				
JA200	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω	L581	ELHKLB026B	COIL				
R460	ERG1SJ471P	METAL	1W	5%	470 Ω	L582	ELC18B271E	COIL				
R465	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	L583	ELC18B150L	COIL				
R555	ERQ12HKR33P	FUSIBLE	0.5W	10%	R33 Ω	L584	ELHKLB025B	COIL				
R559	ERQ12HKR33P	FUSIBLE	0.5W	10%	R33 Ω	12404	ELEBT6R8KA	COIL				
R3105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	12102	ELEBT6R8KA	COIL				
R3106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	DECIC	STORS					
R3107	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω		ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω	
R3108	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω		ERG3SJS151H	METAL	зW	5%	150 Ω	
CAPACIT						R465	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
						R555	ERQ12HKR82P	FUSIBLE	0.5W		R82 Ω	
C551	ECKW3D331JBN	CERAMIC	2kV		330pF	R559	ERQ12HKR82P	FUSIBLE	0.5W		R82 Ω	
C581	ECWF4564JBB	FILM	400V		560nF	R3105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
C582	ECWF4474JBB	FILM	400V		470nF	R3106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
C584	ECWH20432JVB	FILM	200V		4.3nF	R3107	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
C586	ECQF4103JZH	FILM	400V		10nF	R3108	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
C2115	ECUV1H221JCX	S.M. CAP	50V		220pF			3.W.CAND	0.100	3 /0	131 12	
C2116	ECUV1H221JCX	S.M. CAP	50V		220pF	CAPA	CITORS					
C3103	ECUV1H561JCX	S.M. CAP	50V		560pF	C463	ECA1HM221B	ELECT	50V		220µF	
C3104	ECUV1H561JCX	S.M. CAP	50V		560pF	C551	ECKW3D681JBN	CERAMIC	2kV		680pF	
C3105	ECUV1H561JCX	S.M. CAP	50V		560pF	C581	ECWF4684JBB	FILM	400V		680nF	
C3106	ECUV1H561JCX	S.M. CAP	50V		560pF	C582	ECWF4684JBB	FILM	400V		680nF	
C3107	ECA1HM470B	ELECT	50V		47µF	C584	ECWH20562JVB	FILM	200V		5.6nF	
C3108	ECA1HM470B	ELECT	50V		47µF	C586	ECQF4123JZH	FILM	400V		12nF	
TERMINA	ALS AND LINKS					C2115	ECUV1H221JCX	S.M. CAP	50V		220pF	
JK3101	TJB16673	A.V. TERMIN	141			C2116	ECUV1H221JCX	S.M. CAP	50V		220pF	
31(3101	13510075	A.V. ILIXIMIY	AL			C3103	ECUV1H561JCX	S.M. CAP	50V		560pF	
	RENCES FOR	MODEL T	V 201	K10	F	C3104	ECUV1H561JCX	S.M. CAP	50V		560pF	
DIFFER		IVII 31 31 1 1	A / // I			C3105					560pF	
DIFFER	KENCES FOR	MODEL	A201			C3103	ECUV1H561JCX	S.M. CAP	50V			
DIFFER	KENCES FOR	MODEL 1	A201		•				50V 50V		560pF	
	ED VIEW	MIODEL 1	A201			C3106	ECUV1H561JCX	S.M. CAP	50V		560pF 47uF	
EXPLOD	ED VIEW					C3106 C3107	ECUV1H561JCX ECA1HM470B	S.M. CAP ELECT	50V 50V		47µF	
EXPLOD	DED VIEW TKU8E00621	BACK COVE				C3106 C3107 ⚠ C3108	ECUV1H561JCX ECA1HM470B ECA1HM470B	S.M. CAP	50V			
EXPLOD 17 18	DED VIEW TKU8E00621 A66ECF50X82	BACK COVE C.R.T.				C3106 C3107 A C3108 A TERM	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS	S.M. CAP ELECT ELECT	50V 50V 50V		47µF	
17 18 19	DED VIEW TKU8E00621 A66ECF50X82 TKY8E521-1	BACK COVE C.R.T. CABINET	R		•	C3106 C3107 ⚠ C3108 ⚠ TERM	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS	S.M. CAP ELECT	50V 50V 50V		47µF	
17 18 19 20	DED VIEW TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140	BACK COVE C.R.T. CABINET DEGAUSS C	R			C3106 C3107 ⚠ C3108 ⚠ TERM	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS	S.M. CAP ELECT ELECT A.V. TERMIN	50V 50V 50V		47μF 47μF	
17 18 19 20 21	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B.	R			C3106 C3107 △ C3108 △ TERM JK3101 △ DIFFE	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS	S.M. CAP ELECT ELECT A.V. TERMIN	50V 50V 50V	3K10	47μF 47μF	
17 18 19 20 21 22	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T.	R OIL			C3106 C3107 ⚠ C3108 ⚠ TERM	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS	S.M. CAP ELECT ELECT A.V. TERMIN	50V 50V 50V	SK10	47μF 47μF	
17 18 19 20 21 22 23	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LAB	R OIL		•	C3106 C3107 C3108 A TERM JK3101 A DIFFE	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR	S.M. CAP ELECT ELECT A.V. TERMIN	50V 50V 50V	3K10	47μF 47μF	
17 18 19 20 21 22 23 24	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B.	R OIL			C3106 C3107 ↑ C3108 ↑ TERM JK3101 ↑ DIFFE	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR	S.M. CAP ELECT ELECT A.V. TERMIN	50V 50V 50V	3K10	47μF 47μF	A
17 18 19 20 21 22 23 24	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B.	R OIL			C3106 C3107 C3108 TERM JK3101 A DIFFE A EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE	50V 50V 50V	\$K10	47μF 47μF	
17 18 19 20 21 22 23 24	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B.	R OIL EL			C3106 C3107 C3108 TERM JK3101 A DIFFE A EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T.	50V 50V 50V	\$K10	47μF 47μF	
17 18 19 20 21 22 23 24	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ LANEOUS COMP	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B.	R OIL EL			C3106 C3107 C3108 TERM JK3101 A DIFFE A EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82 TKY8E523-1	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T. CABINET	50V 50V 50V MAL X28\$	\$K10	47μF 47μF	A
17 18 19 20 21 22 23 24	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ LANEOUS COMP	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B. ONENTS	R OIL EL BEL			C3106 C3107 C3108 TERM JK3101 DIFFE EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T.	50V 50V 50V MAL X28\$	5K10	47μF 47μF	A
17 18 19 20 21 22 23 24	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ LANEOUS COMP TBM8E2015 TPC8E4831	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B. ONENTS PRESET LAB CARTON	R OIL EL BEL			C3106 C3107 C3108 TERM JK3101 A DIFFE A EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82 TKY8E523-1	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T. CABINET	50V 50V 50V MAL X28\$	3K10	47μF 47μF	A
EXPLOD 17 18 19 20 21 22 23 24 MISCELI	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ LANEOUS COMP TBM8E2015 TPC8E4831 TPD8E726 TPD8E727	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B. ONENTS PRESET LAB CARTON TOP CUSHIC	R OIL EL BEL			C3106 C3107 C3108 TERM JK3101 DIFFE EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82 TKY8E523-1 TLK8E05140	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T. CABINET DEGAUSS C	50V 50V 50V MAL X28\$	5K10	47μF 47μF	A
EXPLOD 17 18 19 20 21 22 23 24 MISCELI	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ LANEOUS COMP TBM8E2015 TPC8E4831 TPD8E726 TPD8E727 CTION BOOKS	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B. ONENTS PRESET LAB CARTON TOP CUSHIC BOTTOM CU	R OIL EL BEL			C3106 C3107 C3108 TERM JK3101 DIFFE EXPLO	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82 TKY8E523-1 TLK8E05140 TNP8EE013BR	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B.	50V 50V 50V NAL X28\$	3K10	47μF 47μF	Δ.
EXPLOD 17 18 19 20 21 22 23 24 MISCELI	TKU8E00621 A66ECF50X82 TKY8E521-1 TLK8E05140 TNP8EE013BM ZTFM05008A TBM8E2052 TNP8EP017AJ LANEOUS COMP TBM8E2015 TPC8E4831 TPD8E726 TPD8E727	BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T. MODEL LABI P P.C.B. ONENTS PRESET LAB CARTON TOP CUSHIC	R OIL EL BEL			C3106 C3107 C3108 TERM JK3101 DIFFE EXPLO 17 18 19 20 21 22	ECUV1H561JCX ECA1HM470B ECA1HM470B INALS AND LINKS TJB16673 ERENCES FOR ODED VIEW TKU8E00621 A66ECF50X82 TKY8E523-1 TLK8E05140 TNP8EE013BR ZTFM05008A	S.M. CAP ELECT ELECT A.V. TERMIN MODEL T BACK COVE C.R.T. CABINET DEGAUSS C E P.C.B. F.B.T.	50V 50V 50V NAL X28\$	3K10	47μF 47μF	A A

Cct Ref	Parts Number	Description			• •		Cct Ref	Parts Number	Description
MISCEL	LANEOUS COMP	ONENTS							
	TBM8E2151	PRESET LA	BEL						
1.	TPC8E4834	CARTON				-			
	TPD8E726	TOP CUSHIC	N						
	TPD8E727	воттом си	ISHION			i			
INSTRU	CTION BOOKS								
	TQB8E3118A	GERMAN							
	TQB8E3118B	DUTCH							
	TQB8E3118C	ITALIAN							
	TQB8E3118D	FRENCH					İ		
	TQB8E3118E	SPANISH					:		
1.	TQB8E3118F	SWEDISH					:		
1.	TQB8E3118G	NORWEGIA	N						
	TQB8E3118H	FINNISH				į			
	TQB8E3118K	DANISH							
I.C.s						i			
IC451	LA7876N	VERTICAL O	UTPUT						
IC1103	XLM3-02GFZ	EAROM							
DIODES									
D456	MTZJT-775.6C	DIODE							
D458	EU02V0	DIODE							
COILS	L002 V 0	DIODE							
J26	T3A205016	COIL							
L581	ELHKLB026B	COIL							
L582	ELC18B271E	COIL							
L583	ELC18B150L	COIL							
L584	ELHKLB025B	COIL							
RESIST	ORS								
R460	ERG3SJS151H	METAL	3W	5%	150 Ω				
R465	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω				
R555	ERQ12HKR82P	FUSIBLE	0.5W	10%	R82 Ω				
R559	ERQ12HKR82P	FUSIBLE	0.5W	10%	R82 Ω				
CAPACI	TORS								
C463	ECA1HM221B	ELECT	50V		220µF				
C551	ECKW3D681JBN	CERAMIC	2kV		680pF	:			
C581	ECWF4684JBB	FILM	400V		680nF				
C582	ECWF4684JBB	FILM	400V		680nF				
C584	ECWH20562JVB	FILM	200V		5.6nF				
C586	ECQF4123JZH	FILM	400V		12nF		:		
TERMIN	ALS AND LINKS								
JK3101	TJB8E030	A.V. TERMIN	AL						

NOTES

	•	
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	 	,

SCHEMATIC DIAGRAMS FOR MODELS TX-28LK10F, TX-25LK10F,TX-28SK10F (EURO-4H CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTES

1. RESISTOR

All resistors are carbon ¼W resistor, unless marked otherwise.

Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)

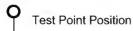
2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise. Unit of capacitance is μF unless otherwise stated.

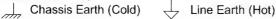
3. COIL

Unit of inductance is µH, unless otherwise stated.

- Components marked "L" on the schematic diagram shows leadless parts.
- 5. TEST POINT



6. EARTH SYMBOL



7. VOLTAGE MEASUREMENT

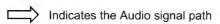
Voltage is measured by a d.c. voltmeter. Measurement conditions are as follows:

Power source Receiving Signal a.c. 220V-240V, 50Hz

All customer controls

Colour Bar signal (RF)
Maximum position

8. Indicates the Video signal path



These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

- The Power Supply Circuit contains a circuit area which uses 1.
 a separate power supply to isolate the earth connection.
 The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits except the Power Circuit, are COLD. Take the following precautions:-
- Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simutaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

ZEICHENERKLÄRUNG FÜR MODELL TX-28LK10F, TX-25LK10F,TX-28SK10F (EURO-4H CHASSIS)

WICHTIGER SICHERHEITSHINWEIS

Teile, die mit einen Hinweis _____ gekennzeichnet sind, sind wichtig für die Sicherheit, Sollte ein Auswechsein erforderlich sein, sind unbedingt Originalteile einzusetzen.

ANMERKUNG

1. WIDERSTÄNDE

Alle $\frac{1}{4}$ W Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet. Die Maßeinheit ist OHM (Ω) (k=1,000, M=1,000,000)

2. KONDENSATOREN

Alle Kondensatoren sind Keramikausführungen. Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet. Die Maßeinheit ist μF , wenne keine anderen Bezeichnungen gennant sind.

3. SPULEN

Die Maßeinheit ist µH, Abweichungen sind gekennzeichnet.

4. Mit "L" gekennzeichnete Teile sind ohne Anschlußdrähte.

5. TESTPUNKTE

Kennzeichnung der Testpunktposition

MASSE SYMBOL

Erdung am Chassis ___ Erdung an Masse-Leitung

SPANNUNGSMESSUNG

Spannungsmessungen sind mit einem d.c.-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:
Netzspannung a.c. 220V-240V, 50Hz
Wiedregabe Signal Farbbalken-Testbild
Wiedergabesignal Farbbalken-Testbild (HF)

8. Videosignalweg

Audiosignalweg

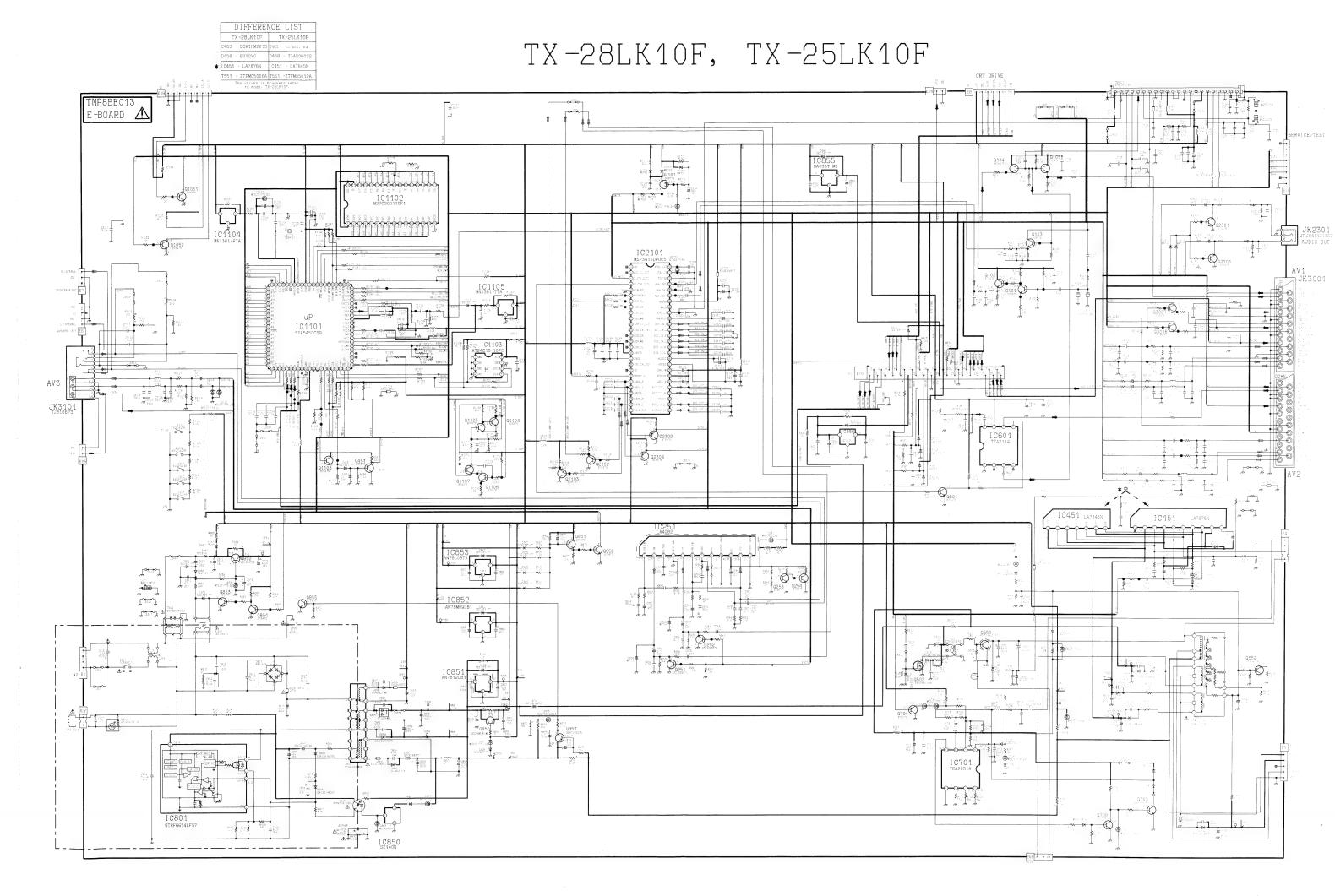
Änderungen im Laufe der Fertigung sind möglich.

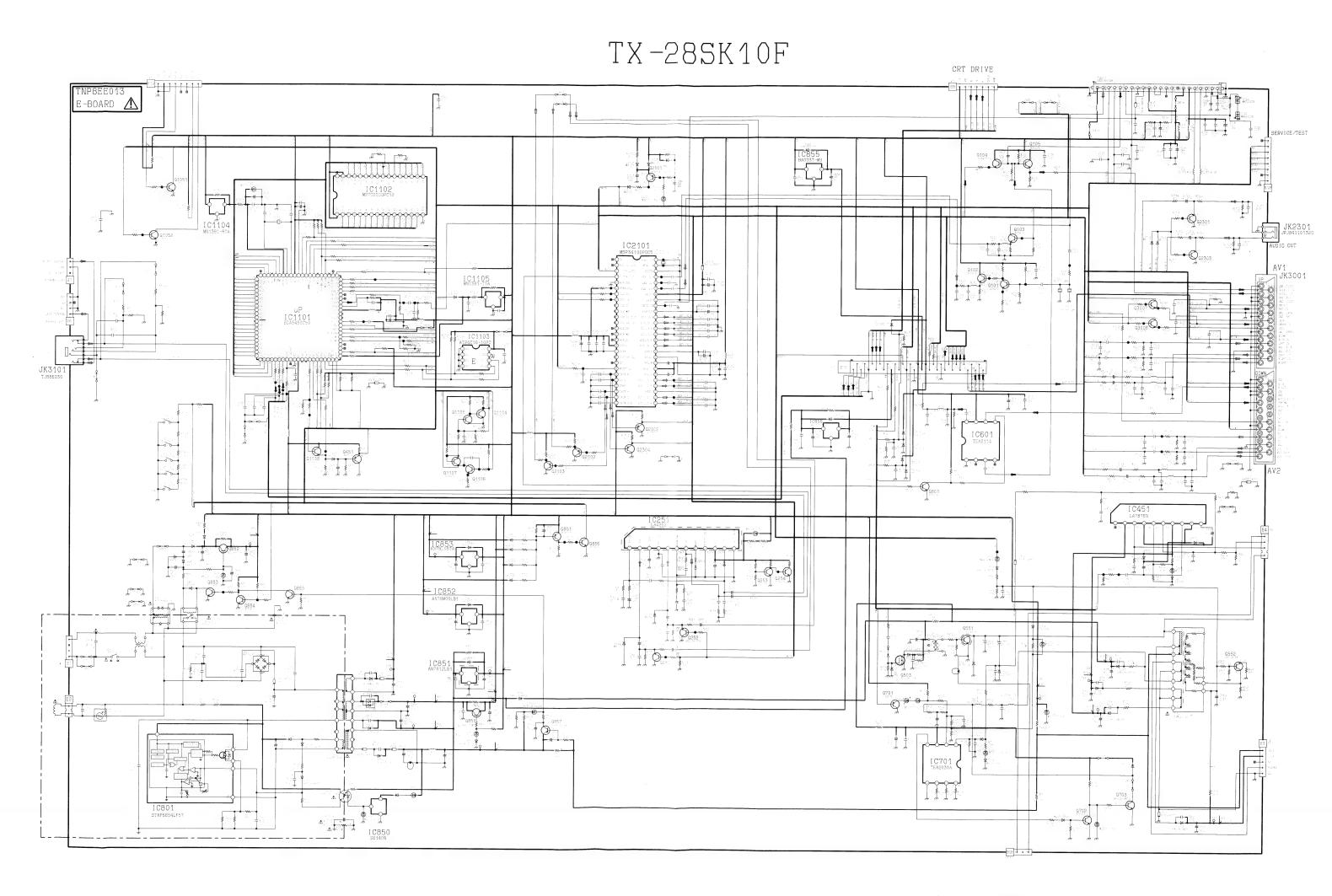
BEMERKUNGEN

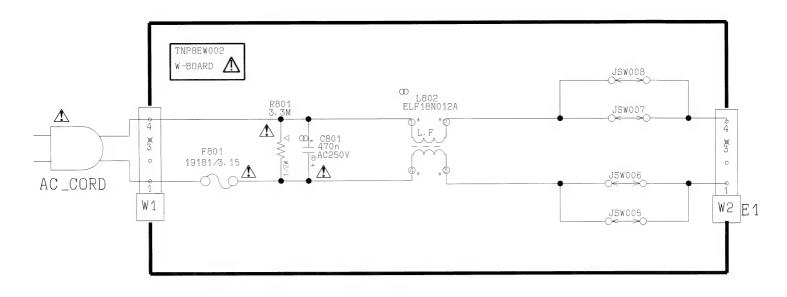
- Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schaltplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit den Netz:-
- a. Weder die Leitungen im heißen noch Leitungen im
- heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
- c. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.

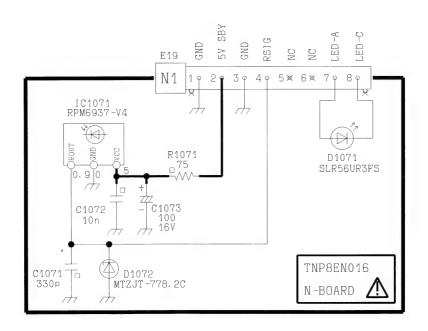
Keine Messinstrumente gleichzeitig an Leitungen im heissen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.

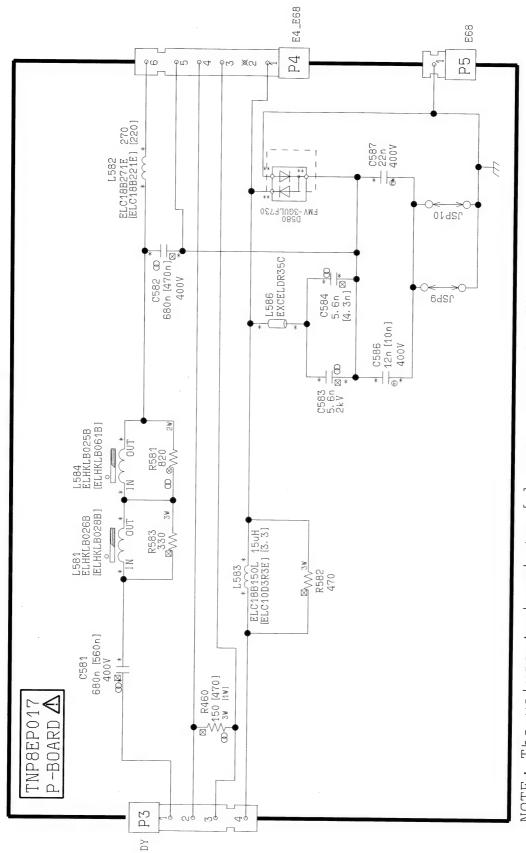
Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.



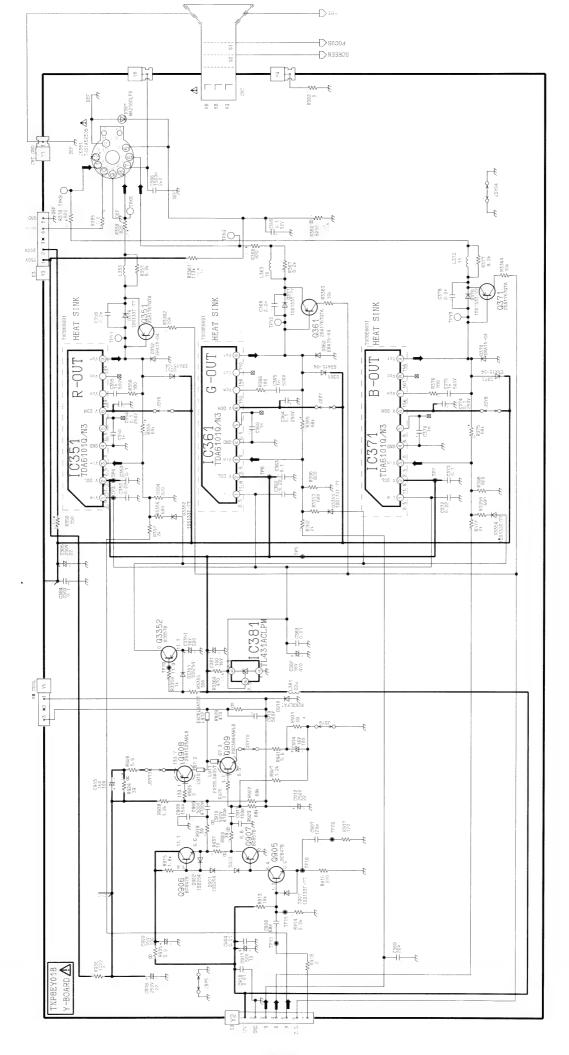






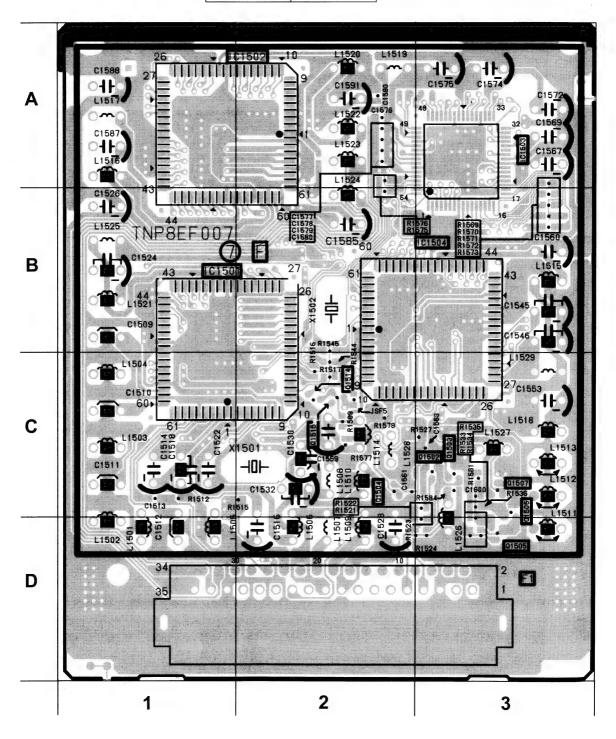


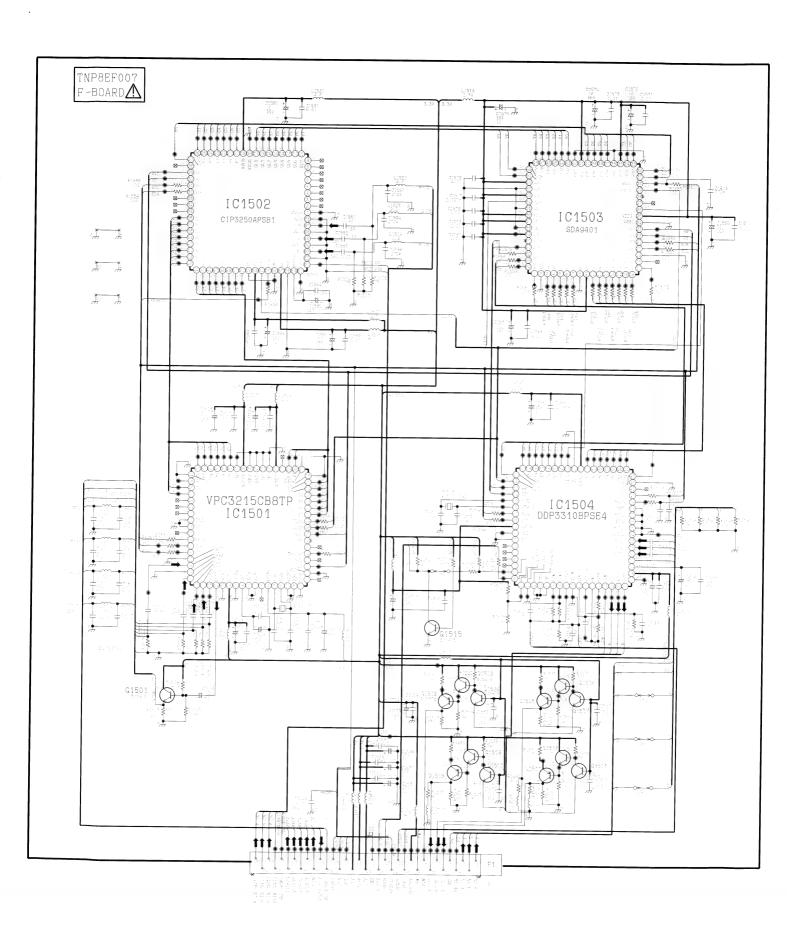
[] refer to model TX-25LK10F. brackets NOTE: The values in



F - BOARD TNP8EF007

TRAN	1 'S	I.C.'	S
Q1502	C3	IC1501	B1
Q1503	C3	IC1502	A2
Q1504	C2	IC1503	A3
Q1505	D3	IC1504	B3
Q1506	C3		
Q1507	C3		
Q1514	C2		
Q1515	C2		

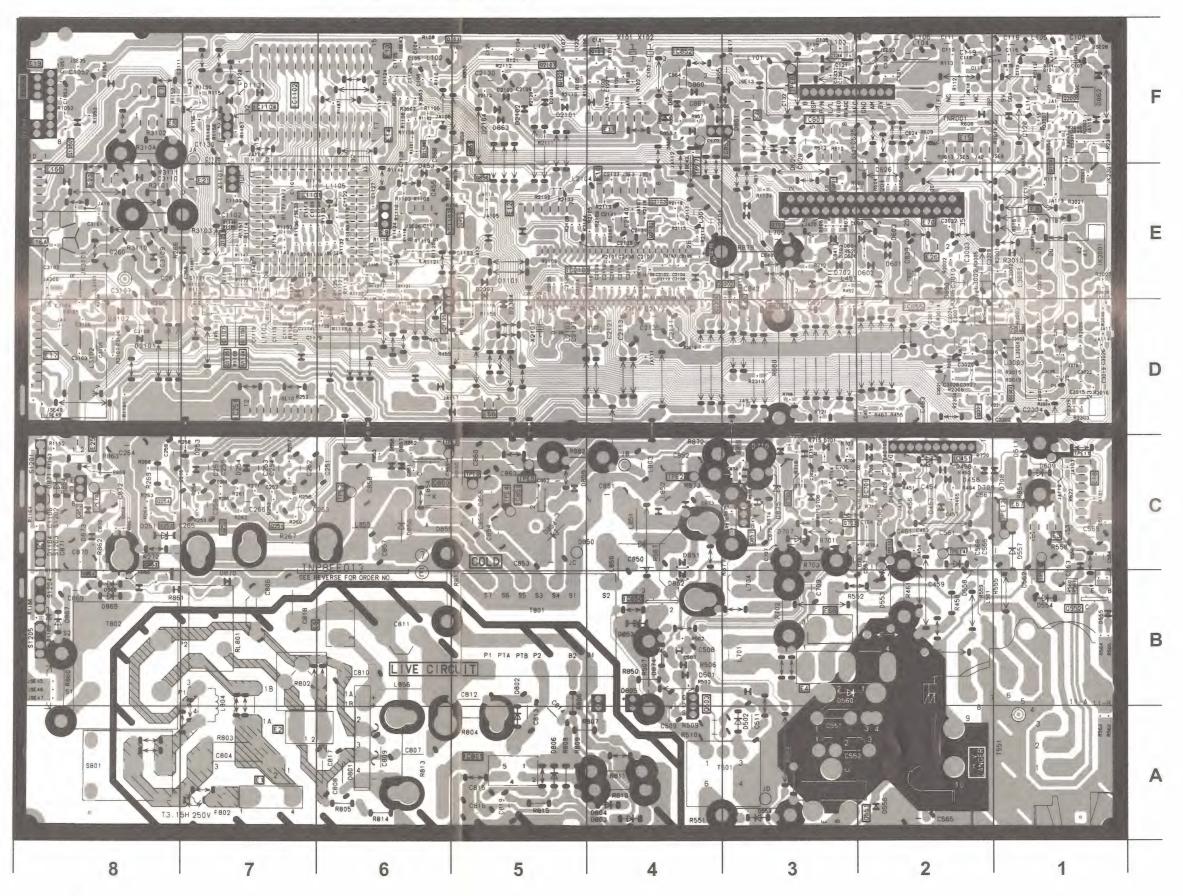




CONDUCTOR VIEWS FOR MODELS ANSICHT DER LEITERBAHNEN FÜR TX-28LK10F, TX-25LK10F, TX-28SK10F

E-BOARD TNP8EE013

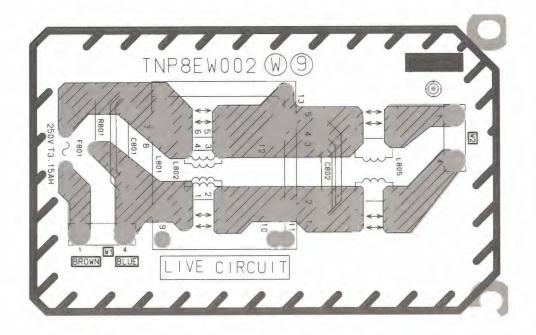
TRAI	N'S	D2304	D5	D859	C4
Q101	F4	D3101*	D8	D860	F4
Q102	F5	D3102*	D8	D861	F3
Q103	F5	D251	C7	D862	F1
Q104	E1	D253	C7	D863	F5
Q105	E1	D254	C7	D864	F4
Q1051	E7	D453	E6	D865	F4
Q1052	F8	D454	C2	D866	F4
Q1104	D7	D456	C2	D867	B8
Q1105	D7	D457	C2	D868	B8
Q1106	D7	D458	C2	D869	B8
Q1107	D7	D501	B4	D870	B7
Q1108	F6	D502	A3	D871	C8
Q2101	F5	D511	C1	D873	C8
Q2102	E4	D553	B2	D874	B4
Q2102	D2	D553	B1		
Q2302	E3	-		D875	C3
		D556	A2	D890	E2
Q2303	D1	D557	C1	D891	E3
Q2304	D4	D558	C2	1016	
Q251	C7	D560	B2	IC'S	
Q252	C7	D561	B1	IC1101	E6
Q253	C8	D562	C1	IC1102	F6
Q254	C8	D601	E2	IC1103	E6
Q3006	F1	D602	E2	IC1104	F7
Q3007	F1	D603	E2	IC1105	D5
Q451	E5	D604	E2	IC2101	E4
Q503	A4	D609	C1	IC251	D7
Q551	A3	D617*	D8	IC451	C2
Q552	B1	D620	F3	IC601	F3
Q601	E3	D701	C3	IC701	C2
Q701	E3	D702	E3	IC801	A4
Q702	C3	D703	E3	IC850	B4
Q703	C3	D704	C2	IC851	C5
Q850	C5	D705	C2	IC852	F4
Q851	F5	D706	C3	IC853	F3
Q852	C8	D707	C3	IC855	E2
Q853	B8	D708	C1	IC856	E3
Q854	В8	D709	C2		
Q855	СЗ	D710	СЗ	TP'S	3
Q856	E5	D801	A6	TPE1	C1
Q857	СЗ	D803	A4	TPE2	C4
		D804	A4	TPE3	C6
DIODI	FS	D805	B4	TPE4	C5
D101	F1	D806	A4	TPE5	C5
D102	F1	D850	C4	TPE6	F3
D1101	F1	D851	C4	TPE7	F4
D1131	F7	D852	B4	TPE8	C5
D2101	F5	D853	B4	TPE9	
D2101	F5				C6
		D854	C5	TPE10	C8
D2103	F5	D855	C5	TPE11	C1
D2104	F5	D856	C6	TPE12	C2
D2105	F5	D857	C6	TPE13	C1
D2303	D5	D858	C6	TPE14	C2
		-28SK10F			



Y - BOARD TNP8EY018

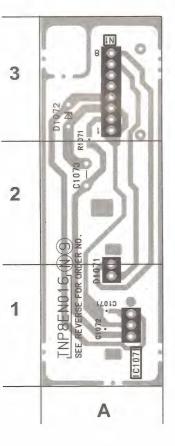
TRA	N'S		S THEORY	60	YA
Q3352	A2		TNP8EY0	03357 0	
Q351	В3		SEE REVERSE FO	R ORDER NO.	
Q361	B2	1	R366	Riabs . W	32
Q371	C2	Α	D3 74 5 C360	C365	25
Q905	B1	A	Coses	9 5 - 1335 835 83	R3356
Q906	C1		The second secon	R R	394
Q907	B1		R396 2 C364	23° 200 C351	R355 2 2 3
Q908	D1		0362	G362	9 0
Q909	D1		R359 R359	53 <u>7</u> E	
DIO			8. 8	03752	R357
D3351	A2		C379	C351 H	C354 - TS
D3352	A3		0000000	1.V.D	Z-C-E-ODI
D3353	A1	В	CRR CRR CRR CRR CRR CRR CRR CRR CRR CRR	ANG	R 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
D3354	C3	В	R9138 38 C38	PR R	R358
D351	B3		69 C907 R917		
D352	B3		0387		
D361	B2		C904 R916 R914	61 Kg Kg	FR.
D362	A1		77 0902	ž T	R335
D371	D2		98	389	
D372	C2				2 2
D376	B3		6 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	PKB	
D377	A2		23 - R	R371	37 C382
D378	C2	С		L373 -	B . D373 . R381
D387	B1		337 150///	JSY02	R336
D901	C1		R937 C908	0371	
D902	C1		CSII)	C916	2 2
D903	C1		0914		0 0 0 0
D907	B1		C912	D372	2071
D910	C1		The second secon	-	369
I.C.			8 R924	3	C375 8 R375
IC351	A3		2 L910 . B 938		_C385
IC361	A1	D	2010/07/11	R390 R390	SI -
IC371	C3	D		5 35	EV
IC381	C3		- R929 Q C R93	R336	- G Roso
T.P.				2	
TPY1	B3		3 000 5	, I	1 302
TPY2	A2		m m	R S G G G G G G G G G G G G G G G G G G	
TPY3	C3				
TPKR	B3			0	0
TPKG	B2		1	2	3
TPKB	C2				

W - BOARD TNP8EW002



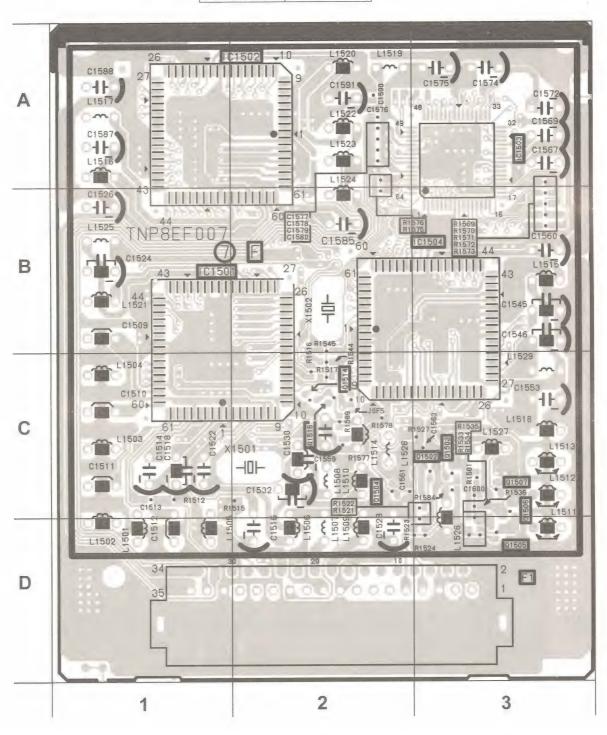
N - BOARD TNP8EN016

DIOD	ES
D1071	A1
D1072	A3
I.C.	S
IC1071	A1



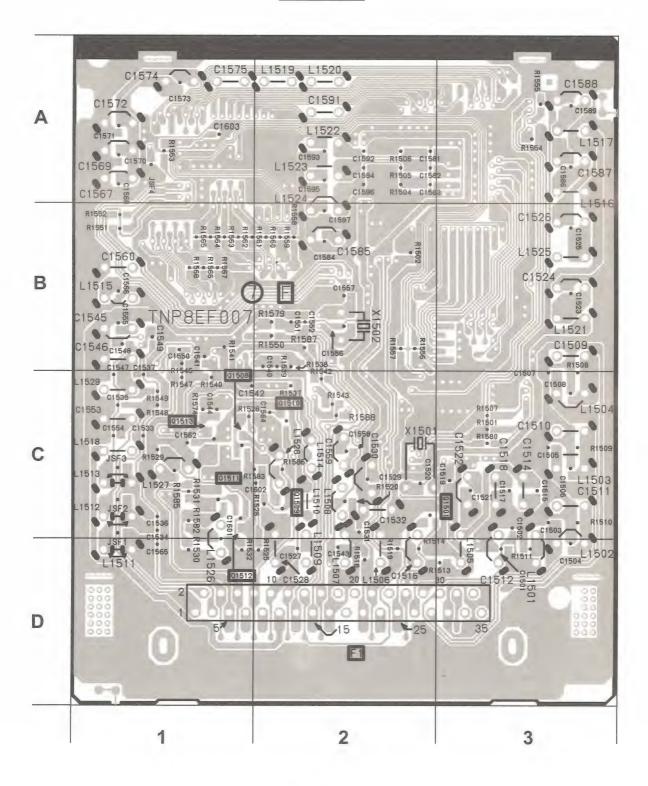
F - BOARD TNP8EF007

TRAN'S		I.C.'S	S
Q1502	C3	IC1501	B1
Q1503	C3	IC1502	A2
Q1504	C2	IC1503	A3
Q1505	D3	IC1504	B3
Q1506	C3		
Q1507	C3		
Q1514	C2		
Q1515	C2		



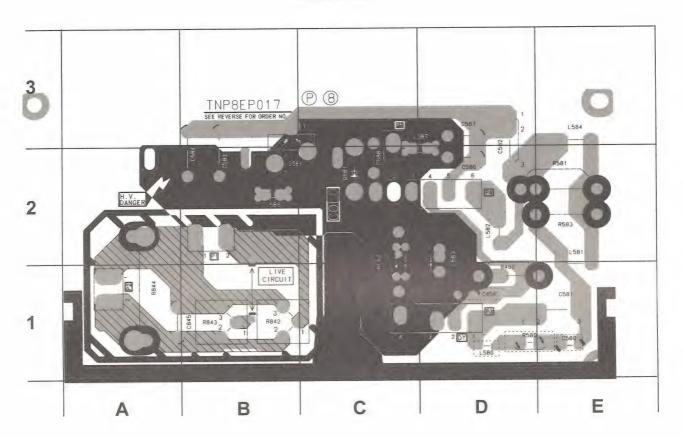
F - BOARD TNP8EF007

TRAN	l'S
Q1501	C3
Q1508	C1
Q1509	C2
Q1510	C2
Q1511	C1
Q1512	D1
Q1513	C1



P - BOARD TNP8EP017

DIODES D580 B2



SUPPLEMENT 1:

NACHTRAG 1:

CHANGE OF CRT FOR MODELS TX-28LK10F, TX-28SK10F BILDSCHIRMÄNDERUNG FÜR MODELLE TX-28LK10F, TX-28SK10F

DIFFERENCE LIST

Description	Before change	After change
C463	ECA1HM221B	NIL
C551	ECKW3D681JBN	ECKW3D471KBN
C581	ECWF4684JBB	ECWF4824JBB
C582	ECWF4684JBB	ECWF4514JBB
C583	ECWH20562JVB	ECWH20472JVB
CRT	A66ECF50x82	A66EAK075x54
D456	MTZJT-775.6C	MTZJT-777.5B
D458	EU02VO	T3A206022
IC451	LA7876N	LA7845N
L582	ELC18B271E	ELC18B221E
L583	ELC18B150L	ELC10D3R3E
L584	ELHKLB025B	ELHKLB061B
R460	ERG3SJS151H	ERG1SJ471P
R465	ERJ6GEYJ102V	ERJ6GEYJ821V
R555	ERQ12HKR82P	ERQ12HKR33P
R559	ERQ12HKR82P	ERQ12HKR33P
T551	ZTFM050008A	ZTFM05012A
ADJUSTMENT PROCEDURE / ABGLEICH :		
B13	13,5V ± 1V	16,5V ± 1V
B14	- 14V ± 1V	- 10V ± 1V

NOTE: Change of CRT was implemented from the serial number of TV set NC-0630001.

HINWEIS: Bildschirmänderung wurde appliziert seit Serien-NR. des Fernsehgerätes NC-0630001.

SUPPLEMENT 2:

NACHTRAG 2:

POWER FACTOR CORRECTION OF MODELS TX-28LK10F, TX-28SK10F, TX-25LK10F BEGRENZUNG DES HARMONISCHEN STROMS FÜR MODELLE TX-28LK10F, TX-28SK10F, TX-25LK10F

DIFFERENCE LIST

Description	Before correction	After correction
C572	NIL	ECJ2YB1H104K
C802	NIL	222233510224
C804	222233510224	NIL
C846	NIL	222233510154
D561	NIL	UDZTE-1722B
D562	NIL	1SS355TE-17
D703	T3A205016	NIL
E P.C.B.	TNP8EE013-7	TNP8EE013-6
E30	NIL	B3P4-VH-B-L
E31	NIL	B3P4-VH-B-L
J109	T3A206022	NIL
J147	T3A206022	NIL
J258	NIL	T3A206027
J259	NIL	T3A206027
J3	T3A205016	NIL
J324	NIL	T3A206032
J404	T3A206037	NIL
J426	T3A206037	NIL
JA203	NIL	ERJ6GEY0R00V
JA204	NIL	ERJ8GEY0R00V
JA205	NIL	ERJ6GEY0R00V
JA206	NIL	ERJ8GEY0R00V
JSE68	NIL	T3A205016
JSE69	NIL	T3A205016
JSE70	NIL	T3A206037
JSW005	T3A206022	NIL
JSW006	T3A206022	NIL
JSW007	T3A206022	NIL
JSW008	T3A206022	NIL
L804	ELF18N012A	NIL
L805	NIL	ELF18N012A
L806	NIL	ETQR42T005A
P P.C.B.	TNP8EP017-8	TNP8EP017-7
P1	NIL	B3P4-VH-B-L
P2	NIL	B3P4-VH-B-L
Q553	NIL	BC847B
R569	NIL	ERJ6GEYJ102V
R571	NIL	ERJ6GEYJ104V
R572	NIL	ERJ6GEYJ102V
R573	NIL	ERJ6GEYJ101V

NOTE: Power Factor Correction was implemented from the serial number of TV set :

NG-0650001 - TX-25LK10F, NG-0640001 - TX-28LK10F,

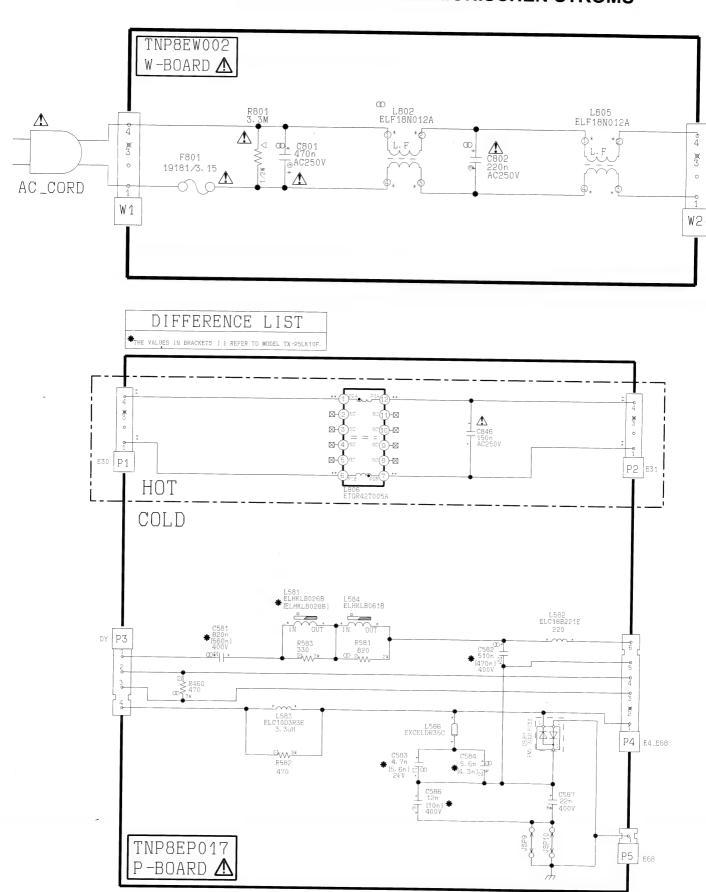
NG-1130001 - TX-28SK10F

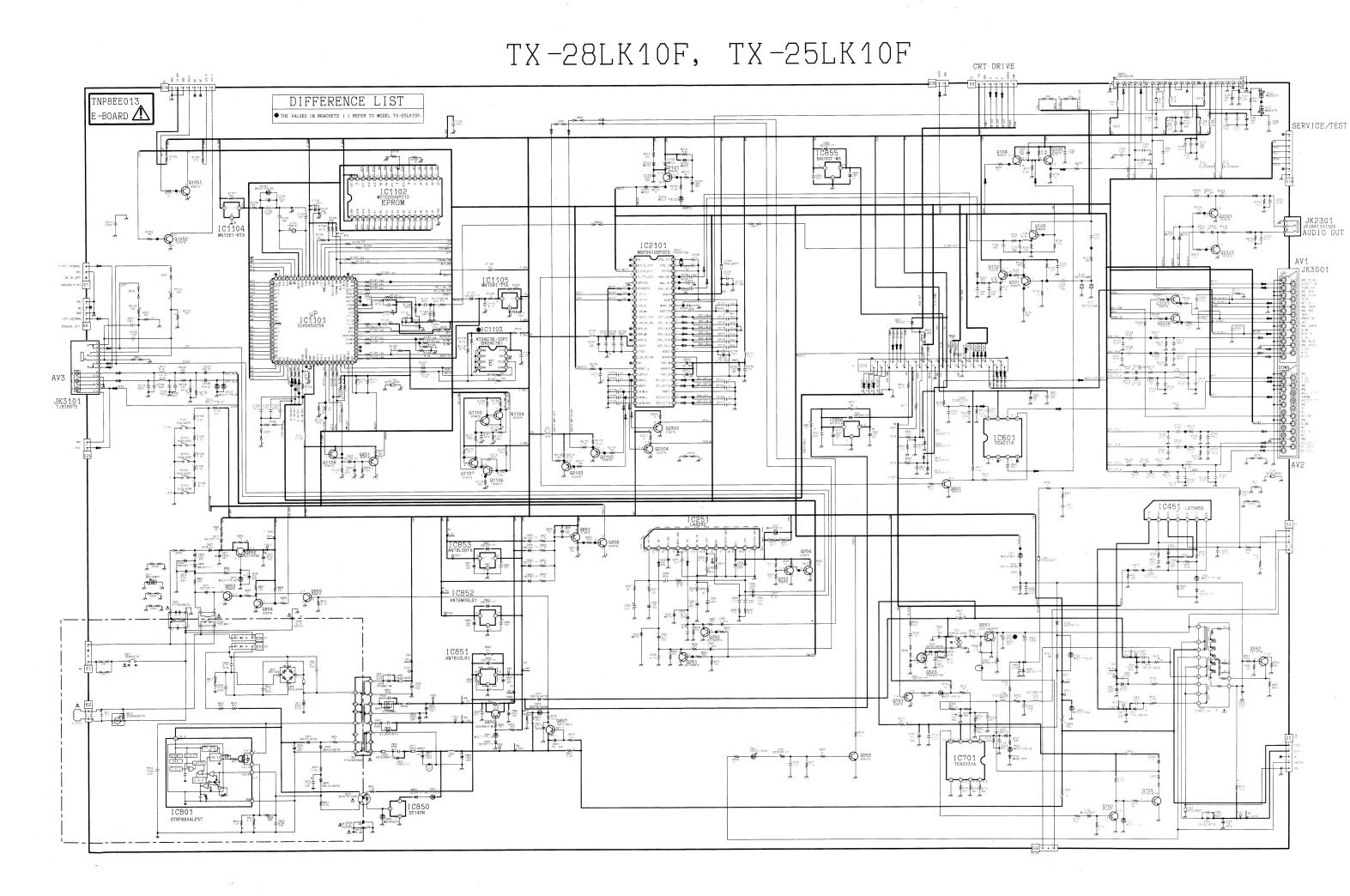
HINWEIS: Begrenzung des harmonischen Stroms wurde appliziert seit Serien-NR. des Fernsehgerätes: NG-0650001 - TX-25LK10F, NG-0640001 - TX-28LK10F, NG-1130001 - TX-28SK10F

MODIFIED SCHEMATIC DIAGRAMS AFTER CRT AND POWER FACTOR ALTERATION

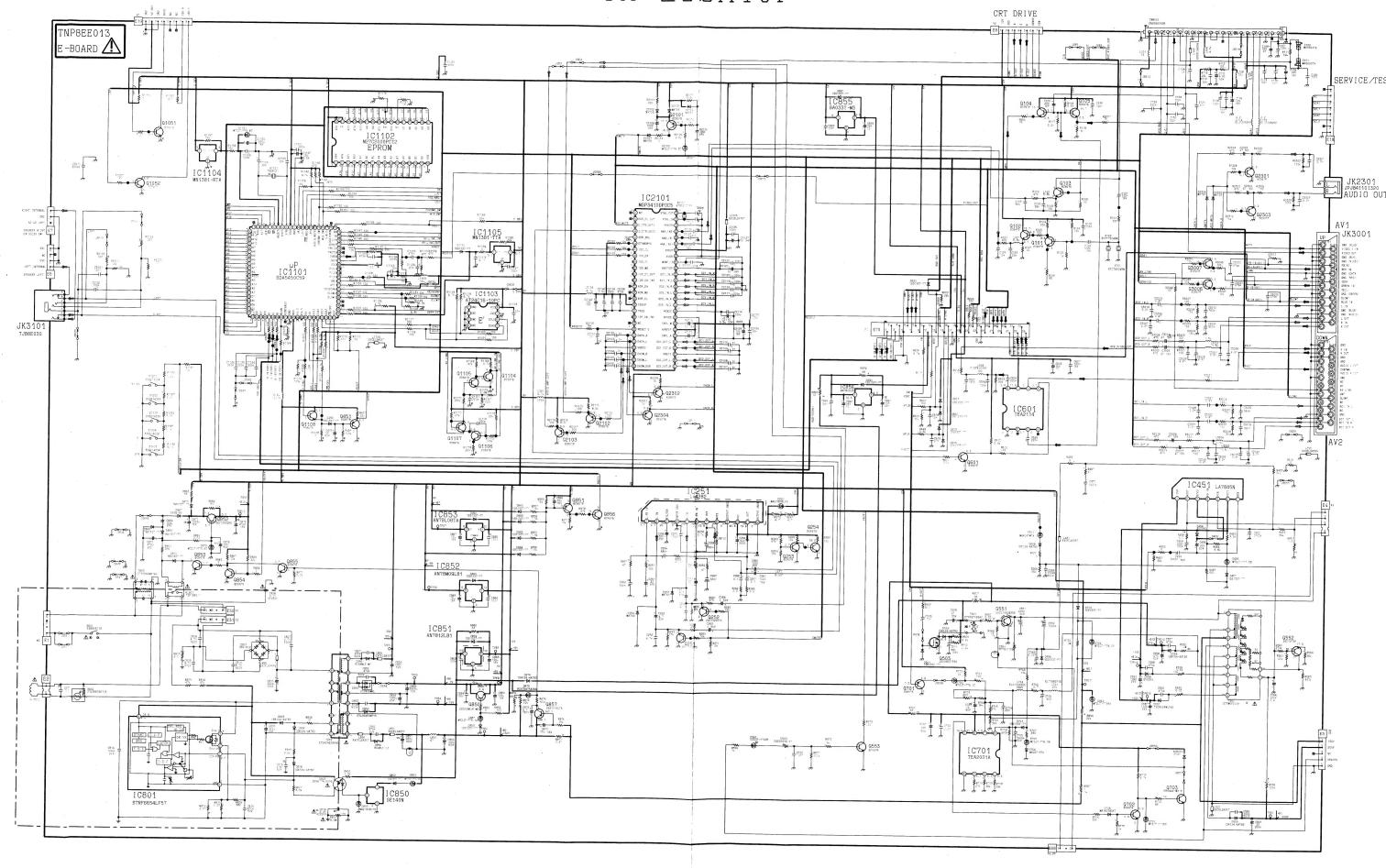
MODIFIZIERTE SCHEMATISCHE DIAGRAMME NACH DER BILDSCHIRMÄNDERUNG UND BEGRENZUNG DES HARMONISCHEN STROMS

E 1





TX-285K10F



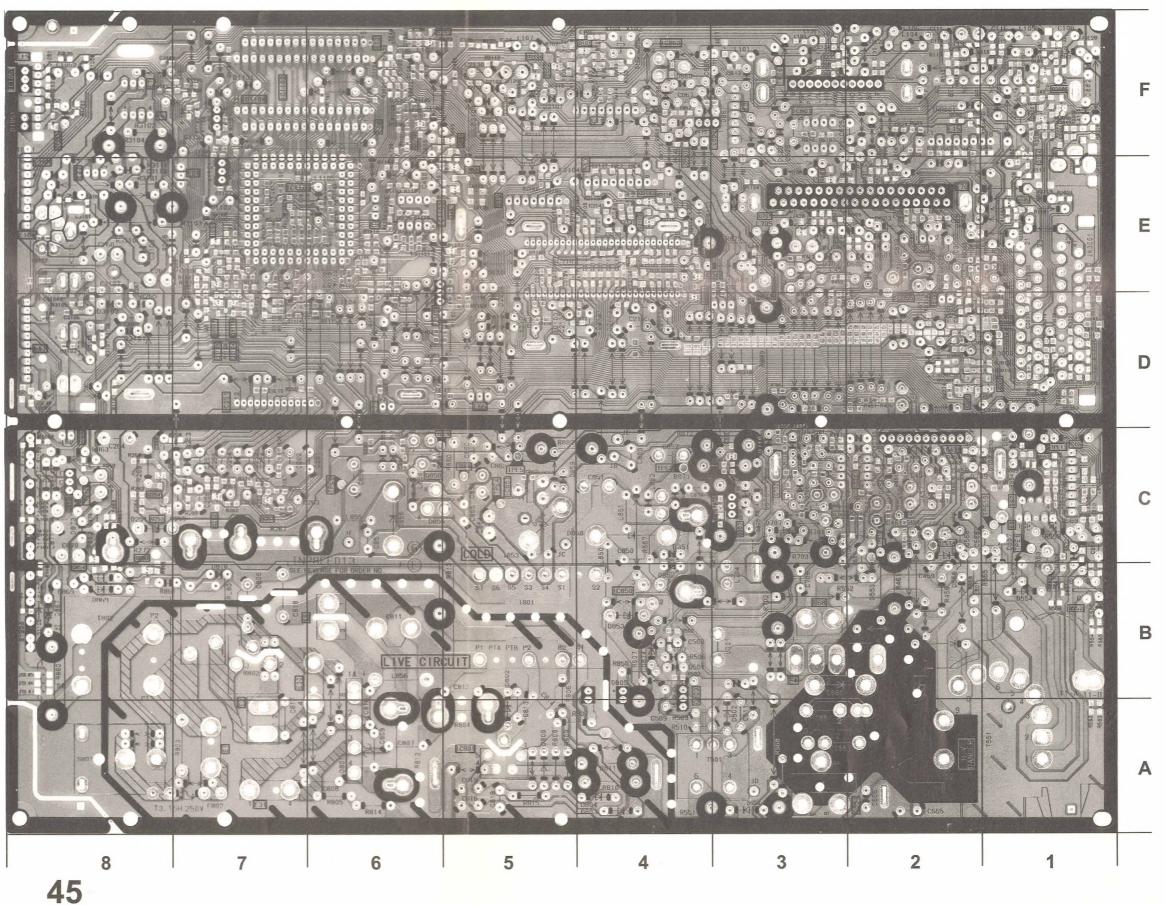
MODIFIED PCB AFTER CRT AND POWER FACTOR ALTERATION

MODIFIZIERTES PCB NACH DER BILDSCHIRMÄNDERUNG UND **BEGRENZUNG DES HARMONISCHEN STROMS**

E-BOARD TNP8EE013 - 6

ADDED COMPONENTS

TF	RAN'S	
Q553	C1	
DI	ODES	
D561	B1	
D562	C1	



NOTES

P-BOARD TNP8EP017 - 7

DIODES D580 B3

